

<110> Byrum, Joseph R.  
Kovalic, David K.

<120> Nucleic Acid Molecules And Other Molecules Associated With  
Plants

<130> 38-21(15786)B

<160> 20082

<210> 1

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<223> unsure at all n locations

<400> 1

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<211> 462

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<400> 2

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<223> unsure at all n locations  
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tgtccatgag gaaagcagtc cagtatcttc caatactcta tccattgate catatttgac 180  
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 aaggatgagg actgctcaga gtangcaaaa aagttatcat gataagagga ggaaagatct 360  
 gaaatttgag gttgggtgac atgtattctt gagaatcact ccgtggactg ggggttggtcg 420  
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 gaacatgaaa aataaacaaa acgccttata aaatttagat ttaggaaatt atttttaatt 180  
 actttaggaa atgttattga tgtcacattc aaaaagtatg tgaaaggatg agtgataaat 240

cataaaattt ggetgctata agttatatcg ataagattaa atttaatttt taactcaaga 300  
 attaaggaaa gctttcataa aaagagaaaa atcaaatttt catttgacat gataatgggt 360  
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<400> 8

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 gattgaacct atagacaacc tcaaaagggg actgcttggt gggtctatga acccccctgt 300  
 tgtaggcaaa ttctacatga ggaagatact catccaaga cttatgggtg cctttcagaa 360  
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<210> 9  
 <211> 442  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
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 acttataaca acaattctca ctctacgatt catatggctc cttatgaagc tttgtatggt 180  
 agaaggtgta ggacaccctt atgttgata aagcccggag aaggccttac cttacgaccg 240  
 gaagtgttac aacaaaccac cgagaaagtc aagttaatcc aggacaggat gatgactgct 300  
 catagtaggc aaaaaagtta tcatgataag aggaggaaag atctgaaatt tgagggtggt 360



gatcatgtat tcttgagaat cactccgtgg actgggggttg gtcgagcatn gaaatcccg 420  
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<212> DNA  
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atttctcgga gaaagtggga agagccttgc tgaattattg cacctatgac atagagatct 180  
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tggattc 247

<210> 11  
<211> 418  
<212> DNA  
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aaaagacaag gccactgaac caattcaaga cgactcaatt tttagacatg acacatgatg 300  
gtaaaagtcc aaccttatat agcacaaagt tattacaagt tgcactgagg tttgataaat 360  
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<210> 12  
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 aacaatgtgt gctttcatca agtaaatctt tttggcatca tcaaaacctg cactgattcac 180  
 atttatgtca ctcaacctct aggttttgag atcaaaagga aggaattaat ggtgtacaag 240  
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 tcatttttca tttagaatga attcaccaag tacacaatgg aatatgatgt atatgtgaaa 360  
 aggaaaacta agggaatact tttgatttgc ctatatgctg atgatttgct tgtgactggc 420  
 agcaatagtg aagaaataga gaaattcaaa gttgagatga t 461

<210> 13  
 <211> 451  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13

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 cttgagacac gaatttgaaa agagtttttc agaacaaaaa ggtctgatcc tcttataaag 180  
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 cacaaaggaa gggtagtcct tgtgtgttta gaactcgtac aagaaattta caagatagtg 420  
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<210> 14  
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 <213> Glycine max

<223> unsure at all n locations  
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ttatgtgctg gataatcctc acttgctcaa gattagagca aataaattga tataagatgt 180  
gtcatttttg agcattcttt ggcattatca caattcacct tatggnggcc attttaatgg 240  
agaaagaagt gctgccaagg ttctccaagc angaattttg tggcccatgc tatataaaga 300  
tgcacatttg tatgtgacac aatatgacaa atgccacaga aaatgaggaa tttcaagaac 360  
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<210> 15  
<211> 432  
<212> DNA  
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<223> unsure at all n locations  
<400> 15

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gaactctcaa gc 432

<210> 16  
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<212> DNA  
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<223> unsure at all n locations  
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gaacctgtaa gtgaaagaaa atatacagac ccatgtaaac tatagaacat agatctaacc 180  
ttttaagtgg aaaataacat aaacgtagaa gtatgcaaatt gaagatttac caaatgaatt 240  
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caatgggacc atgacccctt ggaactctac catgttaata acttccaaaa tttcttccag 360  
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<210> 17  
 <211> 349  
 <212> DNA  
 <213> Glycine max

<400> 17

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 actccttaga agggctacca tttatcaaaa ttgatatcga tgctgagtgg aggcaagctg 180  
 atatccaaga tctccatttt ggacaaaaac ccattctgca cagcatgtaa tccagaaaag 240  
 accaagaaac tgaatcgtag gccttttcaa agtccacctt aagaatcatc acaggtttct 300  
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<210> 18  
 <211> 451  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 18

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 gacaagtcta gataaacaag ttggctgagt tctgagaatg aactaggaag tgttccatta 180  
 aattggcagt aagctagatc aattgtagat aactgcttca tattggaaat tgcacctgga 240  
 agctttcctg agaaatttgt atagctaaga ttcattgtgat gaagagaacc atgttgtggg 300  
 aagtttgga aagaaccccc aagatcttgg ttgtctgaga tgtcaaggac cttcaacgtt 360  
 gatatttgga atatatcttt tggaaaagaa ccattcaagc cacaacttct taactctagt 420  
 gtgactaaat tggagaaatt acaaaggatt c 451

<210> 19

<211> 406  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 19

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<210> 20  
 <211> 460  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
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aacaatgtgt gctttcatca agtaaattct tttggcatca tcaaaacctg cacgattcac 180
atztatgtca ctcaacctct aggttttgag atcaaaagga aggaattaat ggtgtacaag 240
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tcatttttca tttagaatga attcaccaag tacacaatgg aatatgatgt atatgtgaaa 360
aggaaaacta agggaatact tttgatttgc ctatatgctg atgatttgct tgtgactggc 420
agcaatagtg aagaaataga gaaattcaaa gttgagatga 460
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<210> 21  
 <211> 407  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
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 gctttcatca cgtaaattct tttggcctca tcagaacctg cacgattcac atttatgtca 180  
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<210> 22  
 <211> 427  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
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 ccattggatt gatttttcaa gatcacacac acgcacggat cagcaaagaa agcaaaatta 180  
 accacacttt cttgatcacc accaacacaa gagaaatcga tcacaaggga aaaacagcaa 240  
 caccacagat cagcatcaca tcttgaaagt ggttggagag aagaataata ccgagaagaa 300  
 gaagaagaga aaccccatgt ctgaaaattg caaggtggtg agtgcaagat ctaacgcaga 360  
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<210> 23  
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 <212> DNA  
 <213> Glycine max  
 <400> 23

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 attacgggac tcaatcagac atccgagtaa aaagttattg tcgtttgaaa tggctcagag 180

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 taaaaag 427

<210> 24  
 <211> 397  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 24

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 gttttactcg gatgtctgaa tgagtctcgt aatatatcga cacgctcgaa attgaatgtt 180  
 gaagctctaa gcctattcaa acaacaataa cgttttactc ggatgtccga ttgagtgcgc 240  
 taatatatcg agacggtcga aattgaatgg tgaacctatg agccaattta aacgacaata 300  
 actttttact cggatgtctg attgagtcgc gtatatatcg agacgctcaa aatgaatgtt 360  
 gacctctgag ccattcaaga caatactttt actcgat 397

<210> 25  
 <211> 405  
 <212> DNA  
 <213> Glycine max

<400> 25

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 tttctggctt cagcaggagt catgtctcca agggctccac cactggcagc atctatcata 180  
 cttctctcca tattactgag tcttcataa aaatattgga gaagaagctg ttctgaaatc 240  
 tgatgggtgg ggcaactggc acatagtctt ttatatctct ccagtactc atacaggctc 300  
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 gggaaatttt tttctaagaa tactctctta aggtcatccc agctc 405

<210> 26  
 <211> 312  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 26

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 ctagctctta ctctggcctg aactcgaacc aatgcctgca tgcaccttaa tgtccncgct 180  
 gtctgcttcc tcacctgtct cccccgaac aagtgttga atctcacca ctggcttcaa 240  
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 gtctaattgg aa 312

<210> 27  
 <211> 394  
 <212> DNA  
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<223> unsure at all n locations  
 <400> 27

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 aatgatctta gatacaccaa gctgccttgg atatgatgtt tgattcgatg atgattgggt 180  
 agtcagagta aatgttagtt tagagaggaa gaattaacta agttaattat attaaagatt 240  
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<210> 28  
 <211> 340  
 <212> DNA  
 <213> Glycine max

<400> 28

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 cacaagtttc aaagcaaact tatggtgaca caagatgata gattgaaggc ttgttctgag 180  
 gctcttgtga atatgaaggt gttgaagttg tatgcgtggg aaaccaattt tagaagttct 240  
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<210> 29  
 <211> 376  
 <212> DNA  
 <213> Glycine max

<400> 29  
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 atgtccagat tgcaactatt ggccacaaaa ttcgaaaatc tgaagatgaa ggaggaagaa 180  
 tgtattcatg acttccacat gaacattctt gaaattgcc aatgcttcac tgccttggga 240  
 gagagaatga cagatgaaaa gctggtgaga aagatcctca catccttgcc taagagattt 300  
 gacatgaaag tcaactgcaat agaggaggcc caagacattt gcaacatgag agtagatgaa 360  
 ctcatgggtt ccttct 376

<210> 30  
 <211> 396  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30

agcttcatgc ttaactatgt atggaaaaac ttcattactg ttgttcaaga catacaagtg 60  
 agcttgaac aaatcttcta cacttggagt gatcacctgc agtctcttg aaccttacc 120  
 accactctg tcatcatgcc gacactcagg aagcccaaca gcttagcct tctctaagta 180  
 ttctgaacaa aattcaatgg cttcttctgc aatgtacctc tcaacaatag atgcttccgg 240  
 acgatataga ttctttgtat acccttttaa gatcttcatt tatcgtcaa ccgggtacat 300  
 ccaccgtaga taaacaggac cacagcattt gatttctctg accagatgca caatcaagtg 360

aatcatgatg tcaaagaaag cangggaaaa tacatc

396

<210> 31  
<211> 403  
<212> DNA  
<213> Glycine max

<400> 31

agcttaacaa tccttttgat ctatttcaaa atatttctat ccctatcata taacttgcc 60  
cactcatatc cttcatttta aagttacaag agagaaactt tttcggtgag catttttcta 120  
aattggaaat tgtgatgttg agcatttttc catcttaaata ctctctagta ctttattgat 180  
atatgccttt tgagacaagc ttaacaatcc tatgatctat ttcagaatat ttctatccct 240  
atcacaaaac ttgcctcacc catatccttc atttcaaagt tattagagag aaacttctta 300  
gtctcatgaa gaagatcaag atcattagtt gcaagcaata tatcatcaat atacaggatt 360  
agaaaaataa ccttactcct actgaccttc agatatatac att 403

<210> 32  
<211> 387  
<212> DNA  
<213> Glycine max

<400> 32

tcttatccaa ggctcatctt ggaggcgaag ctacttcttc catggcttat tccctaattgg 60  
aaggcgcta ctctcagctc ttctactttg tcttcgctg catctacatg gtggaaaatc 120  
actattaaag gacctcattg aagctcacag atccaacctg catagagacc ccacaggcaa 180  
gcttccatca taaccactct atttgccta ccagggatat ccaacttga cactgcactc 240  
gccaagtaca tacacgacat acatcattac aatgacacta tcaacatcca cagcatctaa 300  
gtctgatgac actatgatca tctacctgat cccgtctcga tgtcattctc aacatcaaca 360  
gtatctgatc tcaatgacat aatcaac 387

<210> 33  
<211> 377  
<212> DNA  
<213> Glycine max

<400> 33

tgaaggatgt aagattctgt gattcttcaa tgtccaccac aatgtgatca aactttgatg 60  
 tcagtgttct gagcaccttc tcaatcacca gttgttccct aatttgttct ccacagcaact 120  
 tcattctaatt ggtgagtgtg agaattcttg tgaaatactc agctactgat tcagtctcct 180  
 ccattgcaag aagctcatac tgtcttctca atgtctgaag ctttaccttc tttatctttt 240  
 ctccaaagat aatccaatat ttatttagat caagatatct aaatatatat tttagtaaag 300  
 taaaagatag atacaattgc tttaatatat tatattgtta ttcttattct cgaaagatgt 360  
 tattatcata atatatt 377

<210> 34  
 <211> 381  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 34

ngccgccacg gagttntccg actatgctct tgtgtgttgg aacaagctac aaaaggagag 60  
 agcaagaaat gaagagccaa tgggtgatac atggacggag atgaaaaaga tcatgaggaa 120  
 gcggtatgtt cgggctagtt actcaaggga cttgaaattc aagctccaaa aactaaccba 180  
 aggcaacaag ggggttgagg agtatttcaa ggaaatggat gtgctcatga ttcaagcaaa 240  
 tattgaagaa gatgaggagg taactatggc tcgatttctt aatggtttga ctaatgatat 300  
 ccgcgatatt gttgagctgc aggagtttgt tgaaatggat gatttgcttc acaaagcaat 360  
 ccaagtggag caacaattaa a 381

<210> 35  
 <211> 324  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 35

agcttgaaat tgaacaacgg aagctctcga gaaaatcgag tggtcataaa ttttcacaca 60  
 gatgtccgat tcggggaaat aatatatcga gacgcacgaa attgaacaac ggaagctctc 120  
 gagaaatttg aatggtcata acatttcaact cggatgttcg atccggggac ataatttata 180  
 gagacgctcg aaattgaaca accgaagctc tcgacanatt agaatggctg taacttttca 240

cgcgaaatggt cgattcgngg acataactca tctagacgct cgaaattgaa caacggaagc 300  
tctcgagaaa tttgaatggt cata 324

<210> 36  
<211> 439  
<212> DNA  
<213> Glycine max

<400> 36  
gtctccacta agttgcctaa tgctgaaat gtcttttctg atggcagagg tcttagatgc 60  
agggagaagaat ttctccaaga acaccctctt aaggtcatcc cagttgaaaa tggacctggg 120  
agcaaggtag tatagccaat cttttgccac tccctccaga gaatgaggaa aagcctttag 180  
aaagatatga tcttcttgaa catcacgggg cttcatggtg taacaaacaa tatggaactc 240  
cttaagatgc ttataaggat cttcacctgc aagaccatga aacttgtgca gcaaattgat 300  
tagtccagcc ttgagaacat aaggaacacc ttcacagga tattgaatgc acaagctttc 360  
ataagtgaat tcaggtgcag ccattctcct aagagtcctc tcacgaagtg gaggttagagc 420  
catgttctca gtatgaaaa 439

<210> 37  
<211> 455  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 37

tcaagcttga caagcccaaa tgtattgggt tggttcaatt agacctagcc ttatcaaate 60  
ttgtcattct tgtttagttg cttgtaaatc tgaaggtgac attccaggat gcgttgccct 120  
tggtgggctg atatcttcat ttaatcaaaa tgacagatca acaaagtatt ctttattttt 180  
gcataaagga tatagatggt tgaaatcttc atgaccatct gcacataaag aagaaatttc 240  
ttgtttaaat tctccaactt ctgggtgggac ttttgctaaa gaaaaaaagc ctaatcattt 300  
cttaaaaaagg cttgaaattt cttttaaatt tgatccctgt agaattgaat tgaagtttac 360  
tggcagtagt atagacatcc attcctatga ggagatctct gtcgggcagt ttacttccaa 420  
tgaccttgggt ccanatgata caatcaggga aaaac 455

<210> 38  
 <211> 318  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 38

cacccgacga agagactgac aaaaacttat tctcttcttt ttggacaaag tattgcaagc 60  
 tgggggcaag ttaattttct taccatcaaa ccttgatgc aactgtgaac gtatgcccat 120  
 attagctaaa tgttgacggg tattcaagcc atccttcgtc tctgctgaa tgtaaggag 130  
 cagtccaatc aactggcac aaacattntt cttcacatgc ataacatcaa tacaatgtct 240  
 aacgtcagga tcagaccagt tcggaaaaca aagaatatag acctcttctt tcatatgcaa 300  
 ctcttacttt tatacttc 318

<210> 39  
 <211> 461  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 39

tgtggtntt agcgatactc accaaaattg tgtaacacaa gcntacatca agtttatcat 60  
 gtctagaag atccagttga acaacatcaa acacaaaatg ttgagcaact ttttgaacaa 120  
 catcaaacac aagatgttga acaacctgtt gaacaacaac caaaagggtg ggatgtaaca 180  
 ttgagaagat caactagaat aaagaaacct gtaattccta gtgattatca tgtgtattca 240  
 caagagtctc aatatgactt tggagttgaa aatgatcctg agtcattttt gcaagcaatt 300  
 aacagttgtg attctaagct atggtatgat gctatgaaag atgaattgga atctatggta 360  
 aataataaag tatgggatct tgtagagttt cctaattggga taaagcctat tggatgtaaa 420  
 tgggttttca naaccaagaa ggattcatta ggtaacattg a 461

<210> 40  
 <211> 441  
 <212> DNA  
 <213> Glycine max

<400> 40

actcagctaa ccatgatgga aagtactgac caaatagaat ctttttatct ttaggattag 60

aacatatgat caagccagca ttaatgtttg ggacgtgtat ggtgatcaag aatcatttca 120  
 tctcttaatt caatcatctt acaatatgat ttatcaacaa ttaacaacta tgataaaaac 180  
 taagaccatt tcaatataat taaacgtaaa atacttaatt attcacagta ataattaaga 240  
 ataaaactta atagattgat ttatttatta ctccatcctt gactttcttt ctagagaata 300  
 gtagctttta tgtatctgtc attacaaagt tcagaagatc atattaagta tgtttgatat 360  
 cacatatacc cttagatatt tctctatcta taatcaaadc ttacatgtaa atgatgtaat 420  
 taccatggag tggagagaga g 441

<210> 41  
 <211> 457  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 41

tgaagaaatn gctaaggaaa atgtgaaatt atgaagtgat cttttctttt atattatgag 60  
 tatgnggctt taagcaatga agagtcaccc tcaaatgaaa ggaatggttg tggcataaac 120  
 tctgtaactg tccatgtgcc taatacatct gctatgacta ggtttgatca attaatgagc 180  
 cttatgcatg acaaggaaat aattccacca atgaaatcag aactagatgc ttatcttgag 240  
 aagaaaaata cttatatctc taataatgga aactcctctt ttattgcctt ggagtgggtg 300  
 aggaataaca acttcaaata taagatttta tcaaagatgg caagagatac actagttggt 360  
 ccagtatcaa tcgttgcatc acaatctaca tttagggctg gaggtagagt aattgatgag 420  
 tatcgttcta gattgaatga agaattctatt gaagctc 457

<210> 42  
 <211> 461  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 42

gggagaacca agatgcactg gccagatgt caaggagttc attatttttg tgaattgaga 60  
 aacgatcttt gattgtaata gaattcaagg cctgtaatc cacacacatg cgtcaagtgc 120  
 catccttctt tttcacgagt aacactggag aggagaatgg gcttcgactg tgttgcatta 180

aactggaatt gagtaattcc ataactgtcg ttcaatttcc gacttctgga agtatggata 240  
 tttgtagggt ctaacatatg ttttgccttc aaaaaaatt atttgctgat taacagaaaa 300  
 tgagaaacga gcaactcatt atataaaggg aaataacggt ttgaagatga ttttaattatg 360  
 aaaaaaggac aaattaaccg gatataatgtt tacctctctt ttcttctttg tggtttgagg 420  
 atttttttgg atggtggctn ttgtcgccct caccaacatt a 461

<210> 43  
 <211> 156  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 43

tcttgatgg ctactcgng tataattaga tagcagtaga tcctaaagac caagaaaaaa 60  
 atggctttac atgccctttc ggtgtcttta cttacagaag ggatgccatt gngttatgta 120  
 atggccttgc caccttccaa agatgtatgc tagcta 156

<210> 44  
 <211> 442  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 44

taataaatct atatatggtt taaaacaagc ctctgtagt gtttccttaa gtttcatggg 60  
 ataatttctt catttgattt tgatgaanac cccatggatt aatgcatata ccacaaggta 120  
 agtgggaagt aaaatatgtt tcttgtttta tatgttgatg atattttact tgacaccaat 180  
 gatcgagggt tgctacatga agtgaaacaa tttcaatcta agaattttga catgaaagat 240  
 atggatgatg catcttatgt catcgacatt aagattaata gagataaacc tcgagggtatt 300  
 ttgggtctat cacaggaaac ctatattaac aaaactctag agagatttcg gatganagat 360  
 tgttcacgaa gggttgtctc cattgtgaag ggtgataggt ttagtttgaa ccagtgccca 420  
 nagaatgact ttgagaggga ac 442

<210> 45  
 <211> 436

<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 45

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ntggaatatt attttcgggc gctcgagcga aaccattct tactccaagc ttttaataat 60
atggccggga tctgtcatta cgtgcgacta tctccactat agaaagaaaa aagaaaagaa 120
caagctaata cacaataact aatataataa atactagaaa taaaggcttt ctacatatac 180
atatatcgtc caaaacaacg attnttatca gctgtagcaa agaataaaac ttcataagaag 240
tcaaaatatg aagaaatcaa tatgtctaga taccctcttt tctatggata aaagatctaa 300
ttgataaagg aagcatcgta aggatccatt aacgcggttn tgaaccgata caataaaaaac 360
tgcttactta tctcatgata gaaaagtcag gaatccactt atgtaataca gtagaatccc 420
cgatatntg agcagc 436
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<210> 46  
<211> 220  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 46

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tcgtcttatt canaaccnca accaattatg anatecncta tctcccactt cacacctcgg 60
aacgcaccgt tcttatagag agaggcgctn tcacatcntt cttaggctgg gagaggaaat 120
gttcccatnt tttatgatac tccgngaac agatatccag tggagatgac gngtgngnc 180
ctgtagctca gaggattaga gcacgtggct acgaaccacg 220
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<210> 47  
<211> 405  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 47

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tatgctgcat acattgataa tagacctcct cagctgcaaa tcttatctca gtagaataat 60
tatgaccttt caagcaatag atactattct cctnggagga ataatacaaa tgtgagatgg 120
acaagtaact ccacaagaac aatagcctgt tcttcatttt tagaatgttg ctggtccaag 180
```



caagccatat gttccttctc caatacagca gcagttacaa taaagacaac aagcagtttc 240  
aacctttctt ataagagtta gtgagacaaa tgaccttcca gaatatgcca tttctagaag 300  
agacaagagc cttcattcat agtctgacaa atcagatggc gcagatgggt actcatatga 360  
accaagctta gtcccaaaat tttgacaaat tgtttcacia gctgt 405

<210> 48  
<211> 259  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 48

gtaatatatt agccgatgct ctntctcggc gtcatgcatt accttctatg cttgaaacan 60  
naatgattgg tcttgaatgt ttgaanaaca tgtatgaaaa tgatgaaact nttggagaaa 120  
ttttttaaaa ttatgatatt ttttcagaan atggtttctt tagacatgaa ggctttcttt 180  
tcaaagaaaa cannatgtgt gtgcctaaat tntctactag aaatttgctt gttttgtgaa 240  
gcacatgaag gaggttaat 259

<210> 49  
<211> 338  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 49

acatctaact cagactaccg attcatgcc aataatatc gagacgcttg anattgaaca 60  
acggaagctc tcgagagatt caaatggta taactnttca catggatgtc caattcaagt 120  
gcataatatt ctgagatgct cttaaatttaa catggaagca caagggaaat tanaacggcc 180  
ataacctata acaaggatgt ccgattcagg ccaataatat attgagacgc tcgatattga 240  
acacttatgc tctcaagaga ttcanatngt catacattnt cactcggatg tccgattcag 300  
acgcataata taccaacatg ctcgatatta aacatcac 338

<210> 50  
<211> 446  
<212> DNA  
<213> Glycine max

<223>        unsure at all n locations  
 <400>        50

tcenctcccn ctctttttaag ataaaagaaa ataatttate aatttattga taatcatcat    60  
 aaagaattaa atattntaaa aaattaacaa ctaanagatt gagtggttcg attggatata    120  
 gagttggagt ttatatTTTC gttgctcatt tgacttctgc ttatttattc ttgactggt    180  
 gtgtgaattg aggtgttggt tatctaagat taattcttat taaatttctt ctgttggagg    240  
 attaagtaat taaaatcaat gaattntacc attttgaagt tagtaaagt gaaattttta    300  
 tacactgatg aataatgaag aaaacaaatt tataatttat tatacactta cgtatattca    360  
 catgtctaac cgatgaattt aaatcagaga cgatattttc ttaattaaaa cattttanag    420  
 aaatgaaact tanaactgat taatca    446

<210>        51  
 <211>        239  
 <212>        DNA  
 <213>        Glycine max

<223>        unsure at all n locations  
 <400>        51

atggtgtctt ggagcgtgct tgtgattntn tctttcgcca tgctgcacaa ctntcaggtg    60  
 ttcccttgag aatggtggag agaagcagaa ggcagttccc tcttagaana gcccgatgat    120  
 ctgcagaaga catgctctct gggctactca nagccaaggg tgatggattc atgacattga    180  
 tcgaaaatgg taaatggatg tgtgacgagg cacctcacag tggaaatgaa tatgtaaac    239

<210>        52  
 <211>        458  
 <212>        DNA  
 <213>        Glycine max

<223>        unsure at all n locations  
 <400>        52

tcaagaatta tggcctcatt aaactacttg tttcccgagg gattttctat aaatagacct    60  
 cccatcttta atggagtggg ttaccactac tggaaaaccc gcatgcaaatt ctttatagag    120  
 gcaatagatt taaatatttg ggaagccata gaacaaggac cttatgttcc cactataatg    180  
 gccggaagtg caacaataga aaaacctaga gcagattgga ttgaggaaga aagaagatta    240  
 gtacaatata atttaaaggc caaaaatatt attacatctg ccctaggaat agatgaatac    300

tttagggttt caaattgtaa aagtgctaag gaaatgtggg atacactaca ggtaacacat 360  
gaaggcacta cagatgttaa aagctctagg ataaacactn taactcgtga atatgaactg 420  
ttcanaatga atgtaaatga aagtatacaa gacatgca 458

<210> 53  
<211> 224  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 53

catctacaac agacctcctt aacctcagca gtatattcat ccacaacaga ataattatga 60  
cctctccagc aacagggtaca atcccgagtg gagaatcatc ccaaccttag atggtcgaat 120  
ccttcacaac aacagcagca acaacaacaa ccttaatttc anaatgctgc tggcccaagc 180  
agaccatacg ttcctccacc aatccagcaa caacaacagc aaca 224

<210> 54  
<211> 290  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 54

gtttaagtct tctaaactgc ctatctatat tccatagcct ataacaactt ccgtgtgccc 60  
atcggcttgt ggggtgacaag ccggtgacaa taacaattta atgccaact tgctccacaa 120  
agtctccan anatggctta agaacttaga gtccctatca ctaacaatgc tccttggcat 180  
accatggagt ctcacaatct ccttgaataa cacatcagcc acatgggaag catcatcaac 240  
tttcttacat ggaatataat gagccattnt agaacaccta tcaacaacca 290

<210> 55  
<211> 272  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 55

gctcttaact gcacaaggct cttaatatgt gaagagtatc cttgtgtaac cttcacncca 60

cgaagacact gacanagact tatcttcttc ttattggaca cagtatggca ggctggcggc 120  
aagtaaatat tcatcccatc agaccttgga tgcaactgtg atcgtatgcc catatcagct 180  
agatcttaac gggatttcaa gccatccttc gtcttgctt gaatggtaag gagcgtacca 240  
atcacactgt cacaacatt gttctccaca tg 272

<210> 56  
<211> 423  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 56

ttatgcaggg aagctaagt tgaagtatgc aatcctgcat atgtttggcg ctgcaaactg 60  
ggtaaccacc aatcacactt ccactgttgc cacagggttg ggtaaatttc tgtatgctgt 120  
tygaaccaag tccaaattta attttggaaa ctatattttt gatcaaactg ttaagcattc 180  
agaatctttt gctgtcaaat taccatttgc cttcccaact gtattgtgtg gcattatggt 240  
gagtcaacat cccaatatct taaacaacat tgactctgtg atgaagagag aatctcctct 300  
atccctgcat tacaactgt ntgaggggac acatgtccca gacattgtct cgacatcagg 360  
gaaagctgct gcttcaggtg ctgtgtccaa ggatgctttt gatgctgaac tcaaggacac 420  
atg 423

<210> 57  
<211> 449  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 57

ntaatgtgtt ctcccttgta gaactactaa ctgcagtaac agttgcagtc catctatccg 60  
gtagtgatga caatagaatc aattccttca cctcatcctc aaatttaatt tgcactgact 120  
ccaactgggc aagaatagta ttaagttcat taatatgatt agttatagag ttagcttctc 180  
ccatcttgag gttgaacaac cgacgcatca agtatacttt cttggctgca gatggcttct 240  
cgtacatatc tganaacgcc ttcattaagt ctgcagtagt cttctcgttt atgatgttga 300  
atgcgacgtt cttggctaata gtgaatctaa tcacgccaaag agcttgctga tctagcaagt 360

tccattcttc ttgectcatg tcctctggct tatccctga tcaggggtga tacaacttct 420  
tctgatatag ataactctct atctgcatc 449

<210> 58  
<211> 373  
<212> DNA  
<213> Glycine max

<400> 58  
gttgtcgctg agaaactggg tcccagaaga ttttttgagt gattattgct gaaaacccta 60  
gccctgcaac ggtcctacg gaagtagaca cggagatgga caagaaaata cgggtgtattg 120  
tgagtagctt ttgaaagac gctctgtac ctgaagctga tgaagatgtc ccaacatcgt 180  
ccaacccaaa tgtttctgtg cctgatgtct agatagatgt tctaactct tccggcccaa 240  
atgctgaagt actctcttcc cccagcacag agagatcaac agaggaagat gatcaagcct 300  
cagaggagac tctgcacca agggcaccag aacctgctcc aggtaacctc attgaccttg 360  
aagaagtaga atc 373

<210> 59  
<211> 402  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 59

gctagagctt agctacacat acctctctaa tagctaagct cacctccttg agatgagaag 60  
ctagagctta gctacacacc cncataata gctaagctca ccncatgac ananaaaaca 120  
tganaataca aaanaaagtc cttactacaa agactactca naatgccccg aaatacaagg 180  
ctaaaaccct atactattag aatggccaaa atacaaggcc caaacgaaga anaaacctat 240  
tctaataattt acaaagataa gcgggtcatg cttagcccat gggctcgaaa tctaccctaa 300  
ggctcatgag aaccttangg ccttcctttg atctctagcc caatctactt ggagtcttct 360  
accaatgcc cttgcaggat aggattgcat cacatgtcat ga 402

<210> 60  
<211> 219  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 60

tattgtagcc gatgctcttt ctggcgctca tgcattactt tctatgcttg aaacaaaatt 60  
gattggtctt gaatgtttga aaagcatgta tgaaaatgat gaaactnttg gagaaatctt 120  
tagaaattgt gagaaatttt cagagnatgg tttctttaga catgaaggct ttcttttcan 180  
agaaaacaaa ttgtgtgtgc ctaaatgttc tactagaaa 219

<210> 61  
<211> 353  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 61

cgacacataa ctcccaccgc atatagaata tcgggccttg tattgggttag ataccttata 60  
ctccccacaa gactcttgaa gaccgtggaa tctaccttct ctcttctatc aaactttgat 120  
agcttcaagc caccttccat atgtgtgttc acgggattgc aatcaagcat attatatatc 180  
ttcaacactt cttttgtgta gctttcttgt gagacacaga taccattctc ccgttggtca 240  
cttncattcc caagtatatg acatgagtcc atatttgcac atcaattcac agacatgact 300  
cttgagtctc aacaatttgg tattgcgata aataggcatc cctaaacaat aat 353

<210> 62  
<211> 365  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 62

ctctacaatt gcatcacctc tcaatgatct ggtgaagaag aatgtggcat ttacctgtgg 60  
tgaaaaaaag gagcaagcct ttgctttgct caaagaaaag cttactaagg ctncagttct 120  
agctcttcct gactnttcta anactttnga gctagaatgt gatgcctctg gagtgggagt 180  
tagagctgta ttngtacaag gtgggcactc tattgcttat tttagtgaan aacttcatag 240  
tgccaccctc aactacccca cctatgataa agagctntat gccttaataa gagccctcca 300  
nacttgnnga atataccttn gttccanggg aattgcattc atagtatca tcaatcactt 360

aagta

365

<210> 63  
<211> 301  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 63

agagacatga aagaccggat gagntttact gtgagatgga agatctaact tataagcaac 60  
aacacccacc ttatntaaca cctggaaagg accataaaat cgangggaga gnttttcatt 120  
aatcctnta gccaaaggatc ttctcttgta gggatcatct tcaagaacac ccaatcaccg 180  
actgtgtatt ctatgtcctg acgaacgttt gtggcattnng ctgcgatgat atcttgagac 240  
ttcaacanga ttctctttat agtagccaat aattaatcta agcaannttg tagttattga 300  
c 301

<210> 64  
<211> 341  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 64

tctacacctg ttgcaagagt ctgtgggtcta tgttcttcta cagatcacca tacagatctc 60  
ggtccttctt tgtagcaatc tggagtcaat gagcaacctg aagcttatgc tgcatacatt 120  
tataatagac ctctcagca gcaaaaccaa caacagaaaa ataattatga cctttcaagc 180  
aatagataca atctagggtg gaggaatcat ccaaacttga gatggacaag tccttcacaa 240  
caacaacagc ttatcgcttc ttcttagaat gctgctggtc caagcaagcc atatgtntct 300  
tctncaatac agcaacaaca gtcacaaana agacaacaag c 341

<210> 65  
<211> 488  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 65

atctccttct tcaactacatc aagaatcacc gngttgagtc ttctctgtgg ctgtcttact 60

gggtagctc catcttctan atntattcga tgcatacatg tggatgggct aataccagga 120  
 atgtccgcca gggccagcc tatagccttc ttatgcttct tgagaactga caacaacttc 180  
 tctcttctgct catcagcaag ggaggcagat ataactactg gagaactctt gctatcatcc 240  
 aagtaagcgt attntaaatn tgatggcaga ggcttcaatt ctgggtgtggg cggctggaca 300  
 gtggtagaag gagatgggtt ctcagccttt acctcataaa gaaagtcaga ggtatgtgta 360  
 ctctctgaaa catgggttagt cctatctgac tctatnaaat caatctcaag aggtanaaca 420  
 ccaccaccag gcatgcantc aatatcactc tcagaatcac tctcagcatc anattcagac 480  
 atatgac 488

<210> 66  
 <211> 396  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 66

cacacatgta gtgaacatct atgataacct gcttcgtgta agcattgtgt tagctataat 60  
 ntatgaagaa ccacttctag ttctataatt gtacaacata ttagcatatg ccanactatg 120  
 tgtatcattt ggatcaccag aataagaata ttacctcaat aaaatctcct tttggcatta 180  
 gtgctctgca tgcactctta ntcctttggg atgggtgatat taaactagtgt atgcaaataa 240  
 caccagcatc tgcaaagaag ttagccacct cacctgaana tntaaatcgt gatgtctaan 300  
 tattaataaaa acaataaaat ataatcggaa gatatcaggg anagcattta gaaagcaaca 360  
 taagaaaaaa cagaataact caccaatcct tctaata 396

<210> 67  
 <211> 358  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 67

gtatgtgtat gcagaagatg ataggatgaa gctaacttac aataattcca tgtgctcctc 60  
 tatagtaact gcttgnata gtctgaatc gctcctgtcc agctgtatcc cactaaacaa 120  
 aacacaacan atgaatccaa gcttggcatg catgtggcaa taatcatgaa tatgatcaag 180



tgaaatgatg atntcgtnt gattctcatt acccaacacc gacagaggtg aatgcagaaa 240  
 ttatggtaaa ttacaccana caaactanaa acacaataat atagaatcgg ggcattatan 300  
 atgaagtagt cgggtaaaga cattgattcg tgtcagtgaa gtgtgatact cacaatct 358

<210> 68  
 <211> 431  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 68

tatcgagacg ctcganatca tcaacggaag ctctcgatan attcgaatgg tcataacatt 60  
 tcactcggat gtccgattcn gngacataat atatcgagac actcgaaagt gaacaacgga 120  
 agctctcatg atattcgaat gtcataaca ttccacacgg atgtccgatt cggggacata 180  
 actcatctag acgctcgaaa ttgaacaacg gaagctctcg agagattcga atggtcataa 240  
 gaattcacac gaatgttcga ttcgnggaca taatatatcg atacgctcga nnatgaacaa 300  
 ccgaagctct ctagaaattc gaatggatc aacatttcac tcggatcggc cgattcgnga 360  
 cataatatat cgagacgctc ganattgaac aacggaagct ctcgacanat tcgaatggca 420  
 taactttcac a 431

<210> 69  
 <211> 173  
 <212> DNA  
 <213> Glycine max

<400> 69

tatattgaga cacacaattt cgtgctcctt ctcttctctt cctccactc atgttctctt 60  
 tactttaagc tcttatccat gagcttctat ggtggtgagc ttcttcttga ctcatcttct 120  
 gctagaaggg catctccatc atctttcttc tttttattca ctgccttaaa cta 173

<210> 70  
 <211> 380  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 70

gctgaatata tagctgcagg aagttgatgt gctcanagtc tttggatgaa gcaataactn 60  
 taacactctg gagtanacct tgatcacatt cctctaaaat gtgacagcac aagtgcgac 120  
 aatctaacan aaaaaatctt gtcatgcatt ctagaactaa acacatagaa ataaggcatc 180  
 attntctcaa agatcatatg ttaaaagttg attggtgcat tgagttcata gatagtgcgc 240  
 atcaactaac agacgttntc actanaccac ttgctagaga tagattctnt ttcgtagaa 300  
 atgaactaga catattagat gcacttagta tagaatgaca ttctatttgc atagtgtgtg 360  
 atgcacattc ttactcatat 380

<210> 71  
 <211> 393  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 71

tcagctgaat cacttcctc ttcanacact agaataagata ttatatnngg tctttataac 60  
 acaagtcata cctaattcng attggtctga ctaaacaatg tanaagtatt tatactagtg 120  
 atttatgaaa aataaattca ttntanatnt gtgtttaatt ntaatttatt gctgggtgtaa 180  
 ataattttac cccatcaact aattaanaat cttaatgtaa ttataagaat ttaattattt 240  
 agcaccacaca atataatata taggaaccag tacaaaaaat tctttttaac attagttggn 300  
 tttacattn tatatatgtt ttgtaatgta tgctaataag ttgatataga aacactacaa 360  
 gaaaaacact taaacatggt tgatatattt ttt 393

<210> 72  
 <211> 269  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 72

accatacaga acctttgcct tccatgcagc aacctggagc aattgagcaa cctgaagctt 60  
 atgttgcanat tatttacaat agacctnctc aacctcaaca gcaaaatcaa ccacagcaga 120  
 acaattatga cctctctagc aacagataga acctagatg gaggaatcac cctaattctca 180  
 gatgggtccag ccctcagcaa caacaacagg gggtagcgaa agtaccctt tgaattgtat 240

attcaagaca tttgagaata aacaaacac

269

<210> 73  
<211> 365  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 73

cactcacaca ccgcactctc caatccttag ctcanaccta tggtcctttg atgctacttc 60  
acrttgga aaatgccagtt cttgggtgtct caactgctga ngctgcacgt gaggggtatga 120  
aaacacatga cctcgttntc tccaacagac cacatcgtaa gatgtttgat atcctcttgt 180  
atgggtccaa agatgtggca tcttctccat atggcaacta ttggaggcag ataaggagta 240  
tatgtgtctt gcattctctc agtgccaaan aggttcaatc ttttgggtgca gtgagagaag 300  
aagaaatctc cataatgatg gagaagatan ngcagtgtgt cttcttgatg ctgtgaatta 360  
tctga 365

<210> 74  
<211> 192  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 74

caaccaaaga tatgaagatg tgagatgtnt ggttctctgc catcgaataa ttcatatgaa 60  
gtnttctnta aaatgggtct tattaaagcc ctatctaaaa tgtagcatgc agtggttaacg 120  
gcttcagccc ataagtattc tggaagagga gtatcattca ataaagntct agcaatctcg 180  
tccaaagatc ta 192

<210> 75  
<211> 487  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 75

atgtataata aaataggtaa tgtgatacat agaaggatga caagcaataa aatcgaacat 60

aagaaagtat tacaaaaagt acgaataata ttaagataac ctcacataat ggagaaacag 120  
cattcttgat aacaattcac ttccatcaca agaaanaaga tctgataccg tggactgatc 180  
aaacgcataat tnganaaaga tatagaatag ttatatcttt gattcagtgt atggccaaaa 240  
attgacggta cagaatgtat gaagagagtt tagtctaatt aactaaacag aatataccaa 300  
tattgtaaac tntagtatgg tgttcagcta gtacggataa ngaaacaata caaaatttga 360  
tctaaataat atagctctta tgtcaaagca caatangatg atttttaaca aatgactgaa 420  
tcaacacgca tatatcttcc aatctccaca aagatagaga tcatataaac atctcttata 480  
tttatat 487

<210> 76  
<211> 384  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 76

taatcaagat aagtatgaaa agggttnttc ataaactaag tagcacatgg attnttctca 60  
naacatgttt accaaagagt ttttactctc tggtaatcga ttaccagatt attgtaatcg 120  
attaccagta gcaaaatgga tttgaaaaag ttttcaaact gaatttacia cgttccaatt 180  
tatttcaaaa agctgtaatc gattacaatg ttttggtaat agattaccag tgcctttgaa 240  
tgttgaaatt caaattcaaa tgtgaagagt cacatccttt cacataaaaag ctttgagtaa 300  
tcgattacat tgatttggtg atcgattacc agtgattggt tctaaataaa tcaaaagatg 360  
taactcttca aaatggggtt tgac 384

<210> 77  
<211> 401  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 77

tggatttcct tntagtaggg aatctatcct tcttaagatg gagccaaacc cagtcaccct 60  
cattaagaac tagctctttt ctctctctat tgcctttagt tgaatacacc tttgtttggt 120  
tctctatctt gttcttaacc ctctcatgca acttctttac aaattttgac ctagattccc 180

cttctttatg tataaaagaa gtgtccagtg ggaggggaat gaggtctaac agtggttaggg 240  
gattgaaccc atagacaacc tcaaaagggg actgcttggt ggttctatga acccccctgt 300  
tgtaggcaaa ttctacatga ggaagatact catcccaaga cttatgggtg cctttcagaa 360  
gagcccttat aatgggtggat taaaacctat tcaactacctc t 401

<210> 78  
<211> 453  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 78

tctttcctaa atcaaagtat aaatgattnt atattataag tataaaccta ttaaaaaatt 60  
ccgttcaaaa taataagata attttacctg aaattttgaa ccactccact tgtttttaat 120  
gagccaattc caatcttctg gagatacgtg ttttggctga tcattttctt taagataagc 180  
ttgatgtaaa tgataaagct tattcttgta ttgagattga attttcttca ttgcatattc 240  
tctttctctg ccagataaac taaaagcctc cttatatcaa acgttttccac cagcaaaagt 300  
aaaaattaaa tactatcaag atacattatc aaaccaattt gaagatataa ctaatattca 360  
aatatataaa taaattagat ataattaacc taattatata ctaacattca tatgtcgcca 420  
catttcattc acaccatcct tactaatttc act 453

<210> 79  
<211> 442  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 79

tgttcttagt aagatcgatc agacgatgct tttgttcctt ggagagcaac ccgtcttggc 60  
cccagaaaagt gttgccaatg ctctagtggg agtgatgaac gatcctttct cacacttaat 120  
cgctgttgga taaaattctg caccaaatat ccaaaccacca ttaaataaac taaaattcaa 180  
ataattaatt gtatggatgg attagtcaaa taaaaatttc tattagccaa gatattatag 240  
gaatttgta agtctatcac gtgagcagtg ggcttagtgt tcctttcatt aggagattca 300  
tgaaaattnt gtcggccaca naattgtgag acttcttaat caattaaatt aaaaaaac 360

tagtaaaata aaagttgacc agcatanact aatagtggga atataattag tatttgaatg 420  
 ccaaaatcaa ccacatatatt tt 442

<210> 80  
 <211> 479  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 80

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 acctagtaaa agtatcagcc tattgttcat tggaaccaac aaagtcagtc atgatttccc 120  
 ctgacaacac ctttactctt gcaaagtgac aatctatcta tgtgtgttta gtttgttcat 180  
 ggaagaccat attagatgca atgtgaagag cggtttgatt gtcacaaata agcttagtgt 240  
 cctgagtgcc taagtcttgt aatttcgcat gtagctgcta ccatggcaca atgttaagct 300  
 ttgatgctga atctagcaac tatattttgc ttcttgtttc tccatgagat caaattccct 360  
 caaagcaaaa cacaataacc agaggtagat ctcccgtcca tggntatcga attgaaagat 420  
 tcgaattgtg aatcagaaaa gctatattac gaatcgtgaa tcgaatcata tatgaatcg 479

<210> 81  
 <211> 456  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 81

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 gagtaggctt gcaaacaagg ttccaatttg gataaaagtg taaaactact tattaattag 120  
 aattttatga atcattgttt ggaatattga agaaaaaaga caacctgaca accagctgcc 180  
 ctgaaggaac taaaatcatg gcatccaaca agaactctgc atgcttcttg catggatctc 240  
 atcaataact tgaatagctg caagattgag aatctagtaa gtataaggag ctgttaacta 300  
 acttgcatag ctggaagact aagctcctca ggtacatgcc atgctcgatc tttctcgaag 360  
 gttgacaaag gctctggccc agaaagcaac cgatagaagt atctgaatag tagttccaaa 420  
 taactatcaa ttactgcana tggtcataaa caaaac 456

<210> 82  
 <211> 454  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 82

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 ttcatacagt ggctttcctt ctgtgtccag catcttggga tgttcccagc ctttgatgac 120  
 agctttccag gttctgctat ccagtgattt gagaaaggcc accatccttg ctttccagta 180  
 ttcatagttg gtcccatcca gaattggtgg tctgttcaact ggtccgcctt ctttctccat 240  
 gttcatcaga atttatctcc ctagatctca ctcaagtatt tcgagtgcct gctctgatac 300  
 caattgaaat tctgatactg nggacagatg tcgtacagga tgtcacgaca tcacgcttca 360  
 gaacatgcag attatatttg acagtgtgaa caaattaaac aagttlaataa cacaagagaa 420  
 ttgtaaccca gttcggtgaa cctcactaca tctg 454

<210> 83  
 <211> 453  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 83

gttgaatgca ttaaaggtaa acaaaccaaa agcaagaaat tgtgtgcata tagagctaca 60  
 gacgtcttgg aattgagaca taaaacatt tgtgggcat ttcatacact ttcattggaat 120  
 ggtcaacaat attttatatc attcatagac gattactcca gatatgcata cttgtttctt 180  
 atacatgaaa agtcacaatc tttggatgta ttcaaaacat ttaaagttga agttgaaaat 240  
 caactccaca aaagaataaa gtgtgtcaga tctaaccatg gtggtgaata ctatggcaga 300  
 tatgacggtt caggtgaaca acatccgng ccttttgcca ggtacctaga ggaatgtgga 360  
 atcgccccac agtacaccat gtccgngtca cctagcatga atggtgtggc tgaaagatga 420  
 aatagaactc ttaacgatat ggtaagaagc atg 453

<210> 84  
 <211> 432  
 <212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 84

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ntgagcaaat tcaaacgaac aataactttt actcggatgt cagattgagt cccgtaatat 60
atcgaaaagc tcgaaattga atgttgaagc tctaagcaaa ttcaaacgac aaaaactttt 120
tactcggatg tctgattgag tcccgtataa tatcgaaaag ctcgaaatgtg aatgtagaag 180
ctctgagcat attcaaacga caataacttt ttactcggat gtctgattga gtcccgtaat 240
atatcgagat gtcgaaatg gaataccgaa gctctgagca aattcaaaca ataataactt 300
tntactcgga tgtccgattg agtcccgtaa tatatctgaa cgctcganat tgaatgtcga 360
agctctgagc aaattcaaac gacaataaca ttttactcgg atgtctgatt gagtcccgtg 420
tatatcttga cg 432
```

<210> 85

<211> 368

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 85

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tccaccggtt gtgattgcga gataatattc gtggagggag aataaggaat cgtatgaaga 60
cagtacaagt ggagggttca atctcttctc cgtctctctg acttttggga attctatcgg 120
agtagtcgga tgaataattg aaagaatttc tgggaaccgc tagagatggt gttatcgctg 180
gctgaagaca cgtgagcccg cttagaggta agggatgagt ttatcgcaaa tgggattaga 240
atgaacatgt gtanggatcc ttagagaact aaatttgggt taatttgcca tggttattga 300
aatataattt ctctttatga ttataaatat aatattaatg ggtcttatgt accaatgatg 360
ttctgatg 368
```

<210> 86

<211> 449

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 86

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tctataaaag gttcgttcct aatttctcta caattgcata acctctcaat gagctggtga 60
```



agaagaatgt ggcatttacc tgnngtgaaa aacaagagca agcctttgct ttgctccaag 120  
aaaagcttac taaggcacct gttctagctc ttcctgattt ttctaaaact tttgataata 180  
ttagggactt gtatgcttta gatgaacatt tctctcccat ttacgaaagt tgtgggaaaa 240  
aggcccaaaa tggattctat ttggctaagg ggtatttggt caaagaggga aagctttgca 300  
taccccaagg atccattagg aaattacttg ttaaagatag ccatgagggt gggctcatgg 360  
gccactttgg gatagacaag acgctcgtct tactcaaaga anagttttat tggccccata 420  
tgaagaaaaa tgtccttaag cattgcact 449

<210> 87  
<211> 382  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 87

tcattgatca attctgaagt tcacaattgt cataagttca tgaaaggagc aaaatgttgg 60  
atcaagtggc ctcagaataa ttaagaagg gggttgaatt aattattaat gagcctttac 120  
taatcaaaaa cttatccttc ttaatgttac tagattcaat taggctttta ctactaagtt 180  
aagaaagtaa agaacagaaa tagaaactta atcaaagtga aaagcaataa ttaaagtgca 240  
cagcggaaat taaagagtat aggggaagaac aagacaaacg caagaattnt atactgggtc 300  
ggcaaaaactc atgcctacat ccaatcccca agcaacctgc ggttcttgag atttctttca 360  
accttgtaaa atcctttaca ag 382

<210> 88  
<211> 399  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 88

nttggcttta gaattaatca tcaaaagtct catttcattg tgtctaagaa tattccgaga 60  
aggaaaaactc anaaatttgc tatattttgg gtttccaata tatactcatg atattggtaa 120  
atatttgggt ttacctataa ttagtggaag agttaaaaaa aaccacttct cgtttattct 180  
ggataaagta aatgatcgct gagctgggtg gaaatcgaag cttctcaata gacttggctg 240

ggttacactt tgcaaatatg tectcaattt tatccttaca tatgtcatgc aaaacatgtg 300  
 gctccttcaa ggcatttgtg attcccttga tattgctact agacaattca tctgcggatc 360  
 aacttcatct cattgggtga gttggaagac tnatcattc 399

<210> 89  
 <211> 396  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 89

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 tcacaaatgg cggtagactg cgatatgaat ctggcaatat aattcaagcg tcccaggaaa 120  
 cctcggactt gcctctctgt acgngttctt ggcattctcaa ggatagcctt caccttttcg 180  
 gggctacct ctatcccttt ctggcttaca acgaaaccaa gcaatttccc tgatttgacc 240  
 ccaaaggtag acttagcggg gttcaacctt aattgatatt tcttaagcct ttcgaacaac 300  
 ttccgctggg tgacaagggt ttcttcctcg gatttagatt tagcaattat gtcgtccacg 360  
 tagacctcga tctcttgatg catcatatca tggaac 396

<210> 90  
 <211> 391  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 90

tgaaggtaaa aggtttacac agtttcatgt taaaagttac tgacatcctg ctgctaatag 60  
 acattagacg tagctntact cttagtaaga atattagaac aacacagcaa acaaaacact 120  
 ttctatgcat tgagcaaagt tattcaaaaa ataattatgg attagaacta agttttcaca 180  
 aatcttaagc aagcatcagt aacatcttta cctgcagcac tagaaagaac ccaattgtca 240  
 tcataaggaa cttgccacac agcatagcca agtaacttat tttcccttgc ataagaaacc 300  
 ttcatntga caacctcaac atcatcataa cctatccaag tcgatccatt ggagaagtaa 360  
 ttaactacat aagtagcatt gtacttgaca t 391

<210> 91  
 <211> 463  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 91

tattggccgt tggatgaaac tccacacagt gcagttctat gttcacttgt agaggatctg 60  
 aatcccagtt taccagttgg ttgttgccgt taaccaacaa atcttatttt atgttctctn 120  
 taatatttct ttntaattga agatgcttct ttaccacaca gaaattgtat atttttcatg 180  
 caagtataac agttaaatga atagtagtta gtttaattgt atttcgaatt tttttttata 240  
 attaaattat aagtgatttt ttagtttcta tggaaaaaat taaglttggt aagtttttta 300  
 ttttaaaaat taactaaatt tattcattnt gtcaaatnt tacttaaaaa ttntcaaatt 360  
 ttttaatttta tctacatatt taggagtta tgaataaatt gagttagaaa ataattntaa 420  
 aaattatang taactttatt agaaaaatta gtaaatatta atg 463

<210> 92  
 <211> 363  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 92

tattggaatc agccaattgc tcagtgactg ttcttaattc tgtcatcttg aagggtgtata 60  
 gttgttgctt caagcataac cgatttgcaa gagactttgt catatacaag gattccagtt 120  
 tcaaccacat tgagggttgggt gtcttttctc ttgcaacttc tcttatagct ttattttcaa 180  
 ggcatagtat gattgcactt ctggctctat ccatcatttc ttatttctcc tttgaactta 240  
 gagattcaga catcctttct tcttctttaa gagcttctac acagccatgc tgaatcaaga 300  
 ttgcttncat cttgatcttc cataaccga agtcattttc cctgagaact ctcatatcat 360  
 act 363

<210> 93  
 <211> 418  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations

<400>

93

tgattaccct ggtgacactn tacttccagg aatgaaaatt ggagtgaact tcaaaaccgg 60  
tcaacatcga gctctaagat catggagatc ctttacggat cctactccag gtaatttttc 120  
acttgggtgtt gatactcgtg gccttccctca attagttatt acaaatgaga atactaatag 180  
taatgacata gcttatagac caggggtcatg gaatgggtctt agtatcacgg ngcttccctgg 240  
agaaataact gaccaattaa caaaatccct ttttgttatg aatcaagatg aggtcttcta 300  
tgagattcag ctcttgaata gttcaactaa actcatgaga agcagaatgc ttccagaagg 360  
gtatcaagta cgttttatat ggtcagatga aaaaaaatat gggattctca aattccta 418

<210>

94

<211>

435

<212>

DNA

<213>

Glycine max

<223> unsure at all n locations

<400>

94

tagaagcaaa tgctggcatg gtatcgcaga ttcgtgtagc aagaccacct gctgaaggac 60  
ggngaaggaa tcaattgctt ccacgttatt ggcctaggat tactgatcaa gagttgcaac 120  
aaatatcagg agagtatcca acattgtaat ctgtcctata aattattatg aatcactgac 180  
aggatactta ctggttgata cacttattat tattttgata gctaattctt accttagtat 240  
ttccttaacc atgattcatg atatgttcaa gttcaaattc tacaatcgtg ccactctttg 300  
aaaagatgct tagtgcaagt gatgctggtc gaattggctg cttggtttta ccaaagcat 360  
gtgctgaagt aatttatctt aactcatctg ttgaactggc atttactgtt gtcattttat 420  
attaactaac aattc 435

<210>

95

<211>

320

<212>

DNA

<213>

Glycine max

<223> unsure at all n locations

<400>

95

cttgtgtggg acaccattg tgagtgtagt ttccaaacct ttatagaaaa gttgacgatg 60  
actcctgtgt tagttttgct taaccaaga gaaccctttg aggtgtattg tgatgcatca 120

aagatggggtt taggaggagt gttgatgcaa aatggacaag tagtggttta tgcttctaga 180  
 caactcaaga ctcatgagag gaattatcct acccatgata tggagtttagc tgctgtnagt 240  
 tttgctctta acgcgtggag gcattaccta ttcgactcca gtttgaagtg tttagcgatc 300  
 ataaaagcct taagtatttg 320

<210> 96  
 <211> 392  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 96

tctaaactnt aaacaaaaat gaagctaaac tntaaacaag aatgaagctt cgataccact 60  
 tgttagacaa gtggcctcag atatcttaag aagggggggtt gaattaagat attacaaact 120  
 attttcccaa ttaaaattct actttgattt taatgcaagt tcaaagttcc cttaaagatt 180  
 aatttctaaa tgatgattca aaataaccaa actgaatgta aaagtaaagc aacaataaat 240  
 aaaagagttt aaggggaagag agagtgcaaa ctcaagtttta tactggttcg gccacaccct 300  
 tgtgcctacg tccagtcctcc aagcaaccca cttgagagtt ccactaactt gcaaaaaccc 360  
 tttacaagtt ctgaaccaca caaggacaac cc 392

<210> 97  
 <211> 330  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 97

tggtgcagac aaaaatctnt ggctagaatg ccgcanaaat ggtctacaaa acatccatcg 60  
 gttttcttgg cctgaacact gccgcaacta cctctcccat gttgagtatg gcaggaaccg 120  
 ccaactccaca tcccgcttgg aaattacacc aatgactgaa gaatcaataa gtgactcatt 180  
 gagagatgta gaagacattt cttttagatt ctccacagaa ggagactcca agcagaatgg 240  
 agagatggac actgcagcaa ggcagaagca aattatggaa gcaatcatgt gcaggggtctc 300  
 ttccactggc aagtctaatt ccagttactt 330

<210> 98

<211> 416  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 98

aggatagaca aacagcgcta gnccaatcaa ttgtggggct ccaaactcga tggtaggagga 60  
 tgcataaatg acaagcaatt catggggctc cggataagat ttgaaggtag aggatagatg 120  
 aacagcacta ggcaatcaat tegtggggct ccagacttga tggtaggatga tgcataaatg 180  
 acaagaaatt catggggctt tggataatat ttgagggtgg aggatagacg aacagcgcta 240  
 ggcaatcaat tegtggggct ccagactcga tggtaggagga tgcataaatg acaagcaatt 300  
 catgngctc cggataagat ttgttggcag gactgaatgg tccaccggtt tttttccac 360  
 cctaaaggcg aacatgtttt atcaaggaan aataaatcat tcatgagagc actata 416

<210> 99  
 <211> 403  
 <212> DNA  
 <213> Glycine max

<400> 99

tagacggcaa tttcgagcgt ctccatatat tacgggactc aatcagacat ccgagtaaaa 60  
 agttattgtc gcttgaattg gcttacaggt tctacattca atatcgagcg tcccgatata 120  
 ttacgtcact gaatcggaca tccgagtaaa aagttattgt cgtttgaatt tgctctgagc 180  
 ttcaacattc aatttcgagc gtctcgatat attacgggac tcaatcagac atccgagtaa 240  
 aaagttattg tegttagaat tggctcataa gttcaacatt caatttcgag cgtctcgata 300  
 tattacggga ctcaatcaga catcgcgaga aaaagttatt gtcgcttgaa ttggctaaag 360  
 gttcaacata taatttcgag cgtctcgata tatttcggga etc 403

<210> 100  
 <211> 398  
 <212> DNA  
 <213> Glycine max

<400> 100

ctgatgcaac atttggagag gttaatgaaa caacgagatg atgcacttca tgagaggttg 60  
 gatcaaatgg agaataatga tcataatgga gaagaaagga ggagaagagg gaataatggt 120

gttcatagac aaaacccaat tgatggtatt aaactcaaca ttctccctt taaaggaaag 180  
aatgatccgg aggcctactt gtagtgggag atgaaaatag agcatgtttt ctcatgcaac 240  
aactatgagg aggacaaaaa ggtgaagctt gtcgccgcgg agttttccga ctatgctctt 300  
gtgtggtgaa acaagctaca aaaggagaga gcaagaaatg aagagccaat ggttgataca 360  
tgggcccaga tgaaaaggat catgaggaag cggatatgt 398

<210> 101  
<211> 405  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 101

tccgctntca atgtcgagca tctcgatata ttacgggact caatcaaaca tccgagtaaa 60  
aatattattgt tgtcagaatt tgcactgagc ttctgttttc aatttcgagt gtctcgatat 120  
attacgagac tcaatcggac atctgagtta aaagctattg ctctttgtat ttgctacgag 180  
cttccgattt caattacgag cgtctcgata cattatgggt ctcaatcgga catccgacta 240  
aaaagttatt gtcgttagaa ttactcata gcctttattt taaattntca acgtgtcgat 300  
atattacggg actcaatcgg acatccgagt aaaaagttat tatcatttga atttgctcag 360  
agcttctgtt ttcaatttgg agtggtgtcg ataaatgtgg gactc 405

<210> 102  
<211> 452  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 102

tgaagagcct cctcaatcaa actgaaaaac ctatatctct caatgaagtt agcaccatc 60  
ttttcataaa acttgatggt gagaatattc caatcaagca taaccactt gacccttttg 120  
caccatctt ttagggttg ctttgccacc acagagagca acattctccc aagcccttc 180  
gtcttataac actccctcaa gaacaagttc tccatgtaaa accctcgctt ctctagaacg 240  
agagagaagt tcggaaaaaa caagacaaac ccaacaatgg aaacacctt gagggttntt 300  
aaattgtagt ttctcgagat aactattact taatgggaat aataaatgaa taattaataa 360

ttatggacta aattataatt gggtttaaatt ggaagcagtt ttagagaaaa ctattatttg 420  
attggagtag tnggtataag ggtcaatact ca 452

<210> 103  
<211> 298  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 103

accagtcac cctcattcag aagtagctct nttcttctc tattgcctnt agttgaatac 60  
acctttgttt ggttctctta ttggttctta accctctcat gcaacttctt tacaaactct 120  
gacctagatt ccccttcttt atgtataaaa gaagtgacta gtgtgagggtg aatgagggtct 180  
aacggtgtta ggggatngaa cccatagaca acctcaaaag gggactgctt ggtgggttcta 240  
tgaaccaccc tgttgtaggc aaattctaca tgaggaagat actcatocca agacttat 298

<210> 104  
<211> 428  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 104

atgcaagctt gtatattaga caagtcataa gtcacatgt tcatanaaca aatcatttgt 60  
ctaagtcact ggcactctaga agtcctaatt ctctcgtaat ggtgtagaac gaatctttgt 120  
gtagtggttc tgtgaagata tttgcgagtt ganttttggg atctacaaat tctagaacac 180  
agtcaccttt taggacatga tctctaagaa gatgatgcct aatttctatg tgctcggttc 240  
tagagtggaa aactagggtc ttagatatat ttatggcgct tgtgttgta cattntatgg 300  
ngatgtggtc taatacaatc ctataatcag atagttgtta tttcatccac agaactctgtg 360  
cacaacaact accagcagag atgtattctg cttegggttg ggataatgct acaataattt 420  
tgcttctt 428

<210> 105  
<211> 273  
<212> DNA  
<213> Glycine max



<223>        unsure at all n locations  
 <400>        105

ctgatcaaca catgcacagt ggccaaggat gcatgggaga atcctgaaac cactcatgaa    60  
 ggaacctcca aagtgaagat gtccagaatg caactattgg ctacaaaatt cgaanatctg   120  
 aagatgaagg aggaagagtg tattcatgac ttccacatga acattcttga aattgccaat   180  
 gcttgactg ccttgtgaga aaggatgaca gactgaaagc tggtgagaaa gatcctcaga   240  
 tctttgcta agagaattga catganagtc act                                        273

<210>        106  
 <211>        335  
 <212>        DNA  
 <213>        Glycine max

<223>        unsure at all n locations  
 <400>        106

tgtatggaga tctgagcact tcttctctct atgtcttcac aatcatctct taggcggaag    60  
 ttgcagaatc atcatgatga agatactata ttengcacgt ttcgttgat attttggacc   120  
 cttaccttga ttgcattgct taaatatgta ttcatactat tgtgtgctga tgacaacggt   180  
 gaacgtatgc tgctgataac tttattctct tagataattg ttcttataca taggttacga   240  
 tctgtgtgag tgtgagctga gtatgatact tgtgtcatca ggtggaacat ttgcctttat   300  
 tcgctgctgt ggatgcatgc cacgcttaaa ttact                                       335

<210>        107  
 <211>        314  
 <212>        DNA  
 <213>        Glycine max

<223>        unsure at all n locations  
 <400>        107

ggttgaatta agatatacaca tactntntct tnaataanaa atctattttg attntaacc    60  
 anatcccaag aattctttca naatgaactc ctaaataatt atgcannata aacttactga   120  
 atagaagcaa taagcaataa ccaataaaag agtttaaggg aataaagaat gcanactcag   180  
 aattatactg gttcgccac atccttgtgc ctaagtccag tccccagca acccgcttga   240  
 gagtnacta tcttgcnaaa gcccttacag tctgaacaca caggacaccc ttctttggtc   300

<210> 108  
 <211> 340  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 108

tgtgtcgtct gcatactgca atatgctgac tntgacttca tttctgcca cattgaaacc 60  
 ttgaaacagg ttnttatcca ttgcttcttt cnaccagegc gttggtcctt ccacaagaat 120  
 gttaaacagg aacggngata gagggctctc ttgtcttaag cctctntggn gaataaaactc 180  
 aggtgtagga ctcccgtaa ccaatatgga tatggaagca gactttatgc agccttcaat 240  
 ccaagttacc cacctgtcac anaaacccat cctcttcaac aaatatagta caaactccca 300  
 agatactgaa tcatangcca ttntataatc tactttgata 340

<210> 109  
 <211> 240  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 109

caattggaag tgatcatgga ggtgaatntc ataatgagtc ttttgaacac ttttgtgaag 60  
 aacatggaat tcaccacaat tcttattccc caagaacacc tcaacagaat ggtgttgttg 120  
 aaaggaaaaa tatatcccta taagaagggtg caagaaccct tctaaatgaa acaaggttac 180  
 cgaagtactt ttgggcagat gttgtacata ctatntatta caccttgaac agagtactta 240

<210> 110  
 <211> 351  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 110

tgcacaagac tctttaatat tgaagagtat ccttgtggaa ccttcttccg acgaagacac 60  
 tgacaaaaac ttatcttctc cttcttggac aaggatatgtg caggctgggg caagtaaatt 120  
 ttcttcccat cagaccttgg atgcaattgt gatcgtatac ccatatcagc tagatcttga 180

tgggtattca agccatcctt cgtcttgctt tgaatgttaa ggagcgtnc c aatcacattg 240  
 tcacaaacat ntttcttcac atgcataaca tcaatacaat gtctaacgtc aagatcacac 300  
 cagtacagaa gatcaaagaa natagacctc ttcttcatat gcaactctga c 351

<210> 111  
 <211> 317  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 111

atctagaggt atacctagga tctctatcag acactatgct agatggcaca ccatgtaata 60  
 tgacaatctc actaatatac agacagggtca actnttccaa ggaagatatg atattaatgg 120  
 gaataaagtg agcagacttg gtcagcctgt caacaataac ccacatagaa tcaaaacctc 180  
 ttgggggttct aggtagtctt acgacaaaat ccatagaaat atatgtccat tgtcactggg 240  
 tatcttcaag ggggtgtaact atcctgaagg gctctgatat cttatactta tgacagacta 300  
 aacatgcata cacaaac 317

<210> 112  
 <211> 314  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 112

gcttgaatcg atacacacat actgtaatcg attaccagag cagtatttca gattatattc 60  
 tcatcagtc canntctttt attgggttctt gaatggccat canaggctta tatatatgtg 120  
 acttgagaca negaattgct aagagattnt cagaacanna aggtcttata ctcttanaaa 180  
 gcanaatcgt ttcatectct taanaattcc ttggccaaaa cacttgtgat tcaataagga 240  
 attagttgag tgctcaaatt gttcaatcta tctctttcaa gagagaatac ttcttctctt 300  
 cttctntatt ctga 314

<210> 113  
 <211> 451  
 <212> DNA  
 <213> Glycine max

<223>        unsure at all n locations  
<400>        113

tattgtagcc gatgctctgt ctggcgctca tgcattactt tctatgcttg aaacannaat    60  
gattgggtctt gaatgtttga aaagcatgta tgataatgat gaaacttttg gagaaattct    120  
taaaaattgt gaagaatttt cagacaatgg tttctttaga catgaacgct ttcttttcac    180  
agaaaacaaa ttgtgtgtgc ctaaatgttc tactagaaat ttgcttgatc gtgaagcaca    240  
tyangagggtt taatgggtgca ttntgtggtc caaaagactc tatagacatt acangaacat    300  
ttnttattgc ctcatatgaa aaaggatgtg cagacactct gtgaacatcg cattgtattg    360  
taaaatgcaa gtctaattgg aagcctcatg gattgatact ccattgcaat accgagtatc    420  
ttgattgtta tcatggattt gtttgggctg c    451

<210>        114  
<211>        415  
<212>        DNA  
<213>        Glycine max

<223>        unsure at all n locations  
<400>        114

gagggactca tggtcactat gaatgacaaa ttccgtggga taaaggtagt ggtgccatgt    60  
tcccacagcc cgtactaagg catacaactc cttatnataa gttgaatagt taagggtacg    120  
accacttaac ttttactaa aataagcaat tggatggcct tcttgcatca acacagcccc    180  
aatcccaaca tttgaagcat cacactcaat ttcaaaagat ttttgaaagt ttggcaacgc    240  
aagtatggng gcattacgta gcttttgctt aagaacattg aaagcttctt cttgtttctc    300  
tccccatttg aaaccaacat tcttcttgag cacttcattg agaggtgctg ccaatgtgct    360  
aaaatccttc acaaatcgtc tatanaaact tgctaagcca tgaaaactcc tcacc            415

<210>        115  
<211>        369  
<212>        DNA  
<213>        Glycine max

<223>        unsure at all n locations  
<400>        115

tttctctaca atngcatcac ctctcaatga gctgggtgaag aagaaatgtg gcattacctg    60

nggtgaagaa caagagcaag cctttgcttt gctcatagaa aagcttacta aggcacctgt 120  
 tctagctctt cctgactggt ctaanacttt tgagctagaa tgtgatgcct ctggagtggg 180  
 agttggagct gtattgttac aaggtgggca ccctattgtc ttatttagtg aanaacttca 240  
 tagtgcacc ctcaactacc ccacctatga taaagagctt tatgccttaa taagagccct 300  
 ccaaactcgt gaacattacc gttgttcaag gaatatgcat tcatagtcat catcaatcac 360  
 ttaagtaca 369

<210> 116  
 <211> 273  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 116

ctatatgata tagtgtattc tctatattat gttegtatgt ggaggaggct aaattatcat 60  
 tctaattctc ttatagttnt aattgtgtaa tcttgattgt ataaattatt aaatatataa 120  
 acatttggtc ttattttatt atactatata gattgtcttt acattattgt atatcattta 180  
 aatattatga ggatatgaaa ttataattta acctttataa aaatagatgt aacgcaacat 240  
 agagactgat gctactttga tattccaatt gat 273

<210> 117  
 <211> 353  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 117

gagatcatcc nctcaacaac attatgggtg atatctcana tggggtaaca tctagacact 60  
 ctcttaaaga tntatgcaat aatatggctt ttgtatccat gattgaacac taaaatataa 120  
 aagaagccat aatagatgat aattggatca ttgccatgca agaagaatta aaccaatttg 180  
 aaagaaataa tgtgtggaaa ttagtagaac aacctggaaa ttatcctatc atatgaacaa 240  
 aatgtgtttt tagaaataaa ttatatgaac atggtataat tattagaaat aaagccaggt 300  
 tagtagcaca aggggataat caagaagaac gaatagacta tgaagaaaca tat 353

<210> 118

<211> 345  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 118

cagtgtttat attgcggttc caatgtggcc agagggttac ccagaacatg gaacggttca 60  
 agcaatgatg gattggcaga ggagaacaat ggatatgatg tacaaggatg atgctggagc 120  
 actaaaaggc aagggtaatg aggaagatcc tctcaactat tcgacattct tctgcctagn 180  
 taatagggag ctgaacaaaag aatgagagta tgtgccccca gaaagaccag atcctcatac 240  
 agattatatg agagcacaag tgtcccgacg ctttatgatt tatgttcatg ccaagatgat 300  
 gatacgcatg tctgttaatt aagtttacca catcttccaa gatac 345

<210> 119  
 <211> 459  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 119

ngcaagctnt ctaaattgttt ctttgcccag tctcaggtag agtacttagg acatttggtt 60  
 tcgcatcggn gagtggagcc cttagcatca aagggtcactg caattcagca atggccaatt 120  
 cctcgtacaa cgaaggccgt aaggagcttc ctgggccttg ctggccttta tcgcagggttc 180  
 attcagaatt atgccattgg tgtggccccca ttagtcaaag ccacgaccaa agaaccctg 240  
 cattggacat ctgagacaca tgaagccttt gacactttga aacatgcctt gtcaatagct 300  
 ccggtgttag ctttaccaga cttcaacctt cccttcacag tcgagacaga tgcgtcagga 360  
 gttggtatgg gtgccattct ttcacagcga ggccacccca tagcattttt cagcaaacct 420  
 tttagtcca agtactctga tcataacata catgcgaga 459

<210> 120  
 <211> 328  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 120

atagcccgag gactagagta cttgcataag ggatgcaaca ctcgaanttt acattntgac 60

atanagccac aacattcttt nggatgagaa gttctgcctc aagatatctg attntgggct 120  
 agcaaagcct tgtcctagaa atgaaagtat tatttcagg tctgatgcca gaggaacatt 180  
 atgggtatgta gctccagaaa atttggcaga atttcacaca natctgatgt aatcttcac 240  
 ttanattta aaccacctaa accttaatgg gtaaaattaa ttctattatg cattanatgc 300  
 atcttatctt tgacttgaac tctacaat 328

<210> 121  
 <211> 314  
 <212> DNA  
 <213> Glycine max

<400> 121

gacgaagcgt gttgtgaatg gcgtctcgcg tggctagcat ggtatcgaca gcatcattgc 60  
 gtgatgacca cttgatgtaa ttggagatgg cgggaggagg cttaccatat gtgacctcgt 120  
 atggagttaa gtcggtgccg gagtgtgag acgtgttgta agaccattca gctagggcta 180  
 agaattaaac cagtatgccg ggttgtggtg aacgaaggaa cgaagatatt gctcaatcgt 240  
 accgctcatc acttcggttt gcccatcgga ctggtgatga tacgccgtac tcatgcgtat 300  
 cgtcgtccca ctga 314

<210> 122  
 <211> 393  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 122

cagctccatt gatatcattt atttaatgca atgcacatgt ttcgaataag atttcttgta 60  
 tcacaggaaa agatctaate caagttgaat tacggatcat actgattgtg gtgcgaaaac 120  
 tggcttgaag tagccatctg ggtaatatcc aaaccacgaa gtttcctctg gtattaaaac 180  
 agtgtcgcgc tcacactggt aatgtataaa ataagactac aaatatataa gctttcctca 240  
 tgaaatcaat tagcaatatt ctattcataa tatcacaata atacatttag aggacttacc 300  
 atgataagta ccanattctg caagctactc aatcttttct tgtaagaagc atttctctta 360  
 tctggtattt cattgccatg cactggaaga aat 393

<210> 123  
 <211> 416  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 123

ctgcacaagg ctcttaatat ttgaagagta tccttgagga accttcaccc gacgaagaca 60  
 ctaacaaaaa cttatcttct cttctttgga caaagtatgg caggctgggg gcaagtaaatt 120  
 tttcttccca tcagaccttg tatgcaactg tgatcgtata cccatatcag ctagatcttg 180  
 acgggtattc aagccatcct tcgtcttgcc ttgaatgtta aggagcgtcc caatgactct 240  
 atcacagaca tttttctcca catgcataac atcaatacaa tgtctaacgt caagatcaca 300  
 ccaatacggga agatcaaaga atatggacct cttcttccat atgcaactnt gactattatc 360  
 cttcttttga gtcttcccag atacagtatt cagctgttca acccgataat atacct 416

<210> 124  
 <211> 234  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 124

tttgagcgtc tcgatatatg acgagactac atcatacatc ttagtaanaa gttatagtcg 60  
 tttgaatatg ctcagagctt caacattcaa ttacgagcat ctcgctatat tacgggactc 120  
 aatcagacat ccgagtaaac agtttggtgt ttgaattgtc tgagagcact cacattcaca 180  
 ttctagcgcc tcgatatata tatggactct atcacacatc cgagtataaa gtta 234

<210> 125  
 <211> 375  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 125

tttgagccgt cgacgaccng ngatccttag agtcacctga ggctgctgct tacatcaaca 60  
 cttcaggggc tgtactactt acatggattg atgggcctat gcagttgaaa gcctggagaa 120  
 agaggatgcc tatngttgtt gggatgaatt ctccagattt acctgggtaa actctatcag 180



agagaatcaa aaccttgagt attcaagagc tgagtctaag acttcaaaga gagaaagact 240  
 gtgtcatcaa gagaatcagg agtgaccatg gcagagaatt tgaaacagca ggttcaactga 300  
 atttgacat ctgaggcata ctcatgagtt tttgcagcat tacacaaaca gaatgggata 360  
 gtgagaggaa aacag 375

<210> 126  
 <211> 354  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 126

tagctacaca cacccatcta anaactaagc tcacctcctt gagaaacttc cttgagaagc 60  
 tagaagctag ctacacanc cttataatagc taagctcacc cncatgacaa anaaacatga 120  
 naatacanaa aanatcctac tacaagact actcanaatg ccctgaaata caaggctaen 180  
 accctatact actagaatgg ccaaaatata aggccagac gaagganata cctattctaa 240  
 tatntacaaa gataagcggg ctcatactta gcccatgggc tcgaaatcta ccctaaggct 300  
 catgagaacn ctanggtctt cctttggatc tctagcccaa tctacttga gtct 354

<210> 127  
 <211> 420  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 127

agtacaataa gctntatgtt ctaaactctac tggaagatga catcccttgc catgcacat 60  
 ctagaatggg gaaagactgg taggggtctt ataggctatt ctatacacc acaaagcatc 120  
 atccaattta gcaaaccaat ctttactaga attctcttta tctttgtaaa tgagacttca 180  
 acttgaccat tttttgagg gtggtaaggc gatgcaacct tctgtctgac attatagtgc 240  
 tccaatgcct tctgtagttg cacattgcaa aaatgggaac cccattact gatgagaact 300  
 ctaggagttt ccaaccacg aaaaatatc ctcttcacaa accgaatgac tatttttgca 360  
 tcacctttct gtgtggcaat ggcttacacc cattttgata gaaactcttt aaatgacaca 420

<210> 128  
 <211> 390  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 128

agcttgtagg gttatagtct cactgattgtc acgtgctcat gcaacaattg ttagccgtgg 60  
 ctatacgaga catcttgcca aacaaagtca ggttcacgat aacttgcttg tgctttttct 120  
 tacatgctat gtgtagcaaa gtgattgatc cagtaatggt tgatgagttg gaaaacgaga 180  
 ccgcaattat actatgccag ttggagatgt attttcccc tgctttcttt gacatcatga 240  
 ttcacttgat tgtgcatctg gtcagagaaa tcaaatgtcg cggfctgtt tatctacggc 300  
 ggatgtaccc ggctgagcga tacatgaaca tcttatnaga gtatacaaag aatctatatc 360  
 atccgaaagc atctattggt gagaggtaca 390

<210> 129  
 <211> 349  
 <212> DNA  
 <213> Glycine max

<400> 129

aagcttctat agaatgttcg ttcctaattt ctctacaatt gcatcacctc tcaatgagct 60  
 ggtgaagaac gatgtggcat ttacctgagg tgaaaaacaa gagctagcct ttggtttgat 120  
 caaagaaaag cttactaagg cacatgttct aactcttctt gacttttcta aaacttttga 180  
 gctacaatga gatgcctttg gagcgggagt tggagctgta ttgatacaag gcgggcacct 240  
 tattttcttat attagtgaag gacttcatag tgccaccctc aactaccca cctatgataa 300  
 agagctatat gccttaataa gagccctcca aacttgggaa cattacctt 349

<210> 130  
 <211> 455  
 <212> DNA  
 <213> Glycine max

<400> 130

ttataccatg gatgaataac agcggctcag ctacatcaaa aactaccaa agaaacttag 60  
 agttgacaag tattgcagct tacaaggttc attggatact ggaacaaaca aaggctcgac 120

taaaggaaaa agagtcattt taccttcaac ctttggtggg agcccatggt acatggatca 180  
 actttatttt gatggtatgg caatatgtgg tcatgttggt ttcttaaatac tttttataac 240  
 tctaacatgt tatccaaatt gtcttaaaat tcgtagatta ctttcacctt tgaatcttaa 300  
 accaacagac aggccagaca ttgtctcatg aattttcaga ttgaaatatg aacaaatgct 360  
 ttctgactta ccaaagcatc agctgctcag aaaagttggt gttgcgcgta agtttagaat 420  
 gatctttgct gttgaacgta gaaatcaatt gatca 455

<210> 131  
 <211> 381  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 131

catcangaaa caatntcact ttaaaagtgg gtcccaattg gattcctaag tttcaactta 60  
 cctttttgga agtgacatca tggcagtttag gtcccagctt tccatcgtgg attcagtcac 120  
 aaaacaaact tcaatatggt ggactgtcta acacggngat tttagattct attcccactt 180  
 ggttctggga accacactct caggttttgt atttaaacct ctctcataat catatccatg 240  
 gtgagcttgt gactacaata aaaaatccaa tatctatcca aactgttgat ctaagcacac 300  
 atcacttatg tggtaaatac cctatctatc anatgatgtg tatgggttaa acctttcgac 360  
 caattcatte tctgaatcca t 381

<210> 132  
 <211> 420  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 132

gcttcttctt ggttctctcc ccattngaaa ccatcatttt tcttgagcac ttcattgaga 60  
 ggtgctgcca atgtgctaaa atccttcaca aatcgtctat aaaaacttgc taagccatga 120  
 aaactcctca cctcggacac agacttaggt gtaggccatt cttgaatagc cctaaccctc 180  
 tgctgatcaa cttgcactcc ttttgaactc acaacaaaac caagaaacac aacatgggta 240  
 gtacaaaaga tgcatttttc aagattggca tacaattggt cttttctaag cacagtcaag 300

acagatttta aatgatcaat atgcaaata agtgaagtgc tatagataag aatatcatca 360  
aagtacacca caactacact ttctatgaac tctctcaaga tatgggtcat taatctcatg 420

<210> 133  
<211> 381  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 133

ttataagtgc gggctctggga gacgaangtc aagtggctgc gatatgtgaa gatgatacgt 60  
gctcatgcaa caattgttag ccatggctat acgagacatc ttgccaaaca aagttagggtt 120  
agcgataact cgcattgtgt ntttcttcca tgctatatgt agcaaagtca ttgatcctat 180  
caagtttgat gagttggaaa atgacgccgc aattatactg tgccagttgg agatgtatgt 240  
tccccctgct ntatttgaca tcatgattca cttgattgtg atctggacag agaaatcaaa 300  
tgttgtgggc ctatttatct accgaggatg taccgggttg agcgatacat gaagatcgta 360  
aaagggtata cgaagaatct a 381

<210> 134  
<211> 447  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 134

ggaagggttg tacatgacca aatctttagt taatcgtctt tacctanaac agtctttgta 60  
tttgtttaag atgcatgaag atagatcact aggagaacaa ttggatttgt ttaataaact 120  
gattctagat cttgaaaata tcgatgtcac tatatgatga tgaggatcaa gctttgttat 180  
tgttgtgctc ttgcctaag ggttactcta atttcaaaga gactntattg tttggaagag 240  
actttgtttc tcttgatgaa gtgcaggctg ctctgaattc aaaggaattg aatgaaagaa 300  
aggaaaataa gtcctttaca agtgggtgaag ggctgacagc aagaggcaag accttcatga 360  
caaatagtaa atctgataag aagaagcana agccagaaaa ccagaagaat ggtgaaggaa 420  
atgtcttcan aatcagaggt catcact 447

<210> 135

<211> 429  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 135

atgatttgga ttatcctcta nggcaatcag tattcagtat tttaaattcc ctctcaaaaa 60  
 attgcaggct tgggtggcggg gccacaaagc tgccatatat tataagaggc ttagtagagg 120  
 tgcaatagtt acacaatgca gatggagggg gcgcatagcc aggaaagaac ttatgaaact 180  
 gaaaatggta tgttttacca tgattcttat acattaagta gatccttcag aaatagatga 240  
 caaaagatgt aacacgtcca tectacaaaa cttatggcac aaaaagcaaa agatactatt 300  
 tgatcaattt ttaattgtaa aattgagttt caaattatag atatatacaa acaatattca 360  
 tattttttgt ttcattatta tcttcatgaa gggaaaaaca atagaagaac ttanaattct 420  
 cttctgatc 429

<210> 136  
 <211> 470  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 136

acactcttag gatttgcta gtttacattt cttgcttaca ttcataatag cttatttcct 60  
 ttaccttcca ttgtcaaacc gcctagatag ctttcctttt accaattagt tntttacctt 120  
 atctttcaca cctcttttag tgtttatttg gctagnttca accatagttt cttttacctt 180  
 ttgttntcaa acctccaaca agaaagaacc acaacttagg aaccaatatg agtcatcatt 240  
 catctagtgg taatggcaag ggtactagtc ataaagaccc tttatctaga atcttagatg 300  
 agttgagttc cctcacgtta tggaaagaan aacaagagag aaaagaanaa ggaagaataa 360  
 gagtggaaga aataaatcat gatgaaagaa agacaatatg agaggaagaa agaagaacaa 420  
 taatgaaaga aatgaanaga gaaaaacatg cctnctatag tagtcataac 470

<210> 137  
 <211> 451  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
<400> 137

ggcttctaca atctcccnct ntttgatgat gacaaccctg atatcaagaa acacatgcac 60  
atactttttc ctagtcgatt actcacttaa ttctccatat tctacccctt tgggttttgag 120  
tttaagcttc acttgaaatt aagttaatta cttatgtgag ttcttgattt aatccctatt 180  
tctctcccc tttggcatca acaaaaaacc aaagtgcgta acaaatataa aacatacaca 240  
aataactaat catacacaag acattcattg aaaaatctaa accaatcatg aagcaagaaa 300  
catgaataga tcaaataat aaaaaccaca tagtcatata acataattca tatttggttca 360  
gtcatactat gcaaataaaa gaaatactaa atgttcaa atgtcataataa tatagccaaa 420  
tacacggcta gaaatcaaag tactaataat a 451

<210> 138  
<211> 315  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 138

gcttcttata caggcaattc ttgggggnga agctccttct tccttggctt attccctagn 60  
ggatggtgcc tcccctatcc tcttctcctt tgcttccgc tgcattctcca tgatgaaaaa 120  
tcaccattga aggacctcat tgaagatcaa agatccagcc tccatagaag ctccacaagc 180  
aagcttccat caagttatga ccatttgaat ttctcgagat cttccgtggn tcaatttcgg 240  
gcgtctccat atgtcatgtg cctgaatcgg acctccgtaa tataatttat gaccattcga 300  
acttctctag agctt 315

<210> 139  
<211> 432  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 139

agctntggag ttccaagt ccaattcgtc ttcttcttta gtccagtctt cttctggctt 60  
caatccatca gtgggcttct cttctgtgtc cagcatcttg ggatgttccc agcctttgat 120  
gacagcttct caggttctgc tatccagtga ttgaggaag gccaccatcc ttgctttcca 180

gtattcatag ntgggtccat ccagaattgg tggctctgtc actggtcctc cttctttctc 240  
catgttcac agaatattac tccctaggtc tcaactcagtg atttcgagtg cctgctctga 300  
taccaattga aattctgata ccaatgccag atgtcgtaca ggatgtcacg acatcacgct 360  
tcagaacatg cagattatct ctgagtggat gaacacgata aacaagtata taacacaaga 420  
gaattgttta cc 432

<210> 140  
<211> 442  
<212> DNA  
<213> Glycine max

<400> 140

gagctgaaca cacatacctc tataatagct aagcacacct ccttgagaag agaagctaga 60  
gcttatctac acaccccta taatagctaa gctcaccccc atgacaaaaa acatgaaaat 120  
aacagagaaa agtccttatt acaaagacaa ctcaacatgc cccgaagtac aaggctaaaa 180  
ccctatacta ctagaatggc caaaatacaa ggcttagacg aaggaataac ctattctaatt 240  
atttaciaag ataagcgggc tcataacttag cccatgggct cgaaatctac cctaaggctc 300  
atgagaaccc taaggccttt ccttggatct ctagcccaat ctacttggag tcttctagcc 360  
aatgccttg cggggtaaga gtgcattcatt acttttctact cagatgtgcg attcaggcac 420  
atcagatctc gagacgctcg aa 442

<210> 141  
<211> 456  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 141

aacccatgga agctcctaatt atctcccaca ctttgntggg tgggccattc ttggatggcc 60  
ttgattttct caaggccac ttggaccca tttctacca ctacaaaacc taagaagact 120  
atattatcta cacaaaaggc acacttctct atatttgcatt agagggtgtt tttcctaagg 180  
actgaaagaa cttgcctgag atgttctaag tgatcatcta ggctcctact gtacactaaa 240  
atatcatcaa aataaacaac tacaaatcta cctatgaaat ccattaagac atgatgcata 300

agcctcataa aggtgcttgg tgtgttagtg aagcccaaaa gcactactat ccattcatac 360  
acaccatact tggctcttgaa agcgcgttcc actcatcact ctttttcac cttggattcgt 420  
gataaccact tttaagatca ttttttgaag agatat 456

<210> 142  
<211> 193  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 142

atcagaccac ttccagntg ctggaactac ttcacactga tttgatggng cctattctag 60  
ttgaaagcct tggaggaaag aggtatgcct atgtcgatga ggatgatatc ttcagaatta 120  
cctgagtcaa ctttatcaga gaaaaatcag acacctttga agctttaatt gagttgattc 180  
ttatacttta aag 193

<210> 143  
<211> 281  
<212> DNA  
<213> Glycine max

<400> 143

tcacacttac aaaggatata tgggtccatg agggacctcg ggctttctac agagggcctg 60  
ttccatctct tcttggtatg attccttatg cagggattga tctcactgca tatgacacct 120  
tgaaagatct atccaagaga tatattcttt atgacagtgg tatggtatta ctgcaaccac 180  
attatctctt gaacttaatg gatttatatt accactctga aatttttagt gacacataac 240  
acatgtaaac tcaacctttg aacttaaata tgtaattttt t 281

<210> 144  
<211> 115  
<212> DNA  
<213> Glycine max

<400> 144

ctataaatct aagcttaaca tcagaccctt ccaggtgtct gaactacttc acatttatct 60  
gatgggtgct atgcaggttg aaagccttgg atgatagagg tatgcctatg ttgtt 115



<210> 145  
 <211> 405  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 145

agctncacgg cacgactggt aggattaatg caatgattgc tgaactacaa gctctacagt 60  
 cgaatgagac ctggaggctc actcttcttc ctccacagaa aaccgccatt ggctgcaggt 120  
 ggatttacia gatcaagtat cgcgctgatg gctcgattga aagatataaa gcacgtntag 180  
 tggcataggg ctacacgcag atggaggggc ttgattatct tgatacgttc tctcctgtag 240  
 catagttgac taccggctgt cttcttcttg ccttgctgc cgtgaatcaa tggcatctgc 300  
 ggcaactgga cgttaataat gctttcctcc acagacaact tgatgaagaa gtttatatgc 360  
 aggttccacc gggattgacc gtttcacatc ctcaactggg atgtc 405

<210> 146  
 <211> 377  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 146

ggccgccacg gagttntccg actatgctct tgtgtggtgg aacaagctac aaaaggagag 60  
 agcaagaaat gaagagccaa tgggtgatac atggacagag atgaaaaaga tcatgaggaa 120  
 gcggtatgtg ccggctagtt actcaaggga cttgaaattc aagctccaaa aactaaccga 180  
 aggcaacaag ggggttgagg agtatttcaa ggaaatggat gtgctcatga ttcaagcaaa 240  
 tattgaagaa gatgaggagg taactatggc tcgatttctt aatggtttga ctaatgatat 300  
 ccgtgatatt gttgagctgc aggagtttgt tgaaatggat gatttgcttc ccaaagcaat 360  
 ccaagtggag caacaat 377

<210> 147  
 <211> 451  
 <212> DNA  
 <213> Glycine max

<400> 147

atcctcttag tcacctgccg catgcaagct tgaaattgac aacggaagct ctccagaatc 60

tcatatgggtg ataacttate acacgaaagt ctgattcagg cgcatagtat atctagaccc 120  
 tcgaaattaa acaacgaaag ctatcgagaa actcatatgg tcataaattg tcacacggaa 180  
 gtccgattca tgcgcataat atatcgagaa ggttggattt gaaccaccaa tgctctcgag 240  
 aaattcagat ggtcataact tttcaaacag aagtcgata tatgcgcata atatatcgag 300  
 aacgttgaaa ttgaaccacg aatgctctcg agaaattcaa attgtcataa ctcgtcacac 360  
 gaaagtcga ttcaagcgca tactatatct acacgctctg aacttgacaa cgaaagctct 420  
 ccagaaattc atatggccat aacttgtcac a 451

<210> 148  
 <211> 361  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 148

agctttgata tggaaattaa gttganagta aatgatggta tgtataagac atcaatcagt 60  
 gtaatgaatg cagaaagttg tactgcgctt gagtgggtag catagacaag atggccattt 120  
 ggtaatctaa cegtgatggg attaatTTga tgatatgagt gaaagtttgt taaggaggag 180  
 gaaacgtgat cagtggctcc tgaatcta atccaggagg tagagtttgc tttttcgtaa 240  
 gataggatta tacctgttgc atcgttattg gaacaagata aaatggaagc gacctgtggt 300  
 ttggtggatg ctgagtttcc agcagatggc tgttgtatta atgctagcca tgccttgtac 360  
 t 361

<210> 149  
 <211> 501  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 149

agtcacctgc ggcattgcaag cttctgggtg ctgcgatgat cgaccagaac tgttcctga 60  
 actcatccaa gtccTcaaag gcttgagact cacagcagtt aaagctgaca tagccagtgt 120  
 ttggtggcaga atcaaaagca tattgggtgct ttgttctaag gatagagaag acagtgtttg 180  
 ccttgccact ctcaaacagt cctcaaate tgctgtcacc aaaattgctt catcatccat 240

ggcttctagn tgtcccgcta gaagtaagag gcagagattc ttcttgctt ctactgcct 300  
acagttaatt atttattgca aanaatattt ttttccccac tattcattgc agtatggggc 360  
aattatttgc tctattntca atatatatat atatatatat agactcccca ttaggaagat 420  
aaaatcatga aatattagtt ctgtgcaacc aattaaggca tagttaaatt ganaggaaaag 480  
gacgcacagc atagtatgag t 501

<210> 150  
<211> 412  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 150

agtctcacga ttgtcacgtg ctcatgcaac atttgtagc cgtggctata tgagacatct 60  
tgccaaacaa agtcaggta acgataactc gcctgtgctt tttcttccat gctatatgta 120  
gcaaagtcac tgatccagtc atgtttgatg atttggaaaa tgaggccgca attatactgt 180  
gccagttgga gatgtatttt cccctgctt tctttgacat catgactcac ttgattgtgc 240  
atctggtcag agaaatcaaa tgttgtggtc ctgtttatct acggtggatg taccgggttg 300  
agcgatacat gaagatctta aaagggata caaagaatct atatcgttca gaaacatcta 360  
nttgtgagag gtacattgca gaagaagcca ttgaattttg ttcagaatac tt 412

<210> 151  
<211> 483  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 151

gcttcacact tgataatgga gacacatgaa cagtgcctatg taatgacatt catgggtgctc 60  
caaacaaagg tggagtatgg aggattgcct tgagggtccg cacttaggca atcatgaaac 120  
tcaactccaa actcgaaagt ggaggacaca tgaacagccc taagcaataa cattcatgtg 180  
gctccggaat aggatgagaa tggaggattg ccttgagggt cctctcttaa gcaatcatgg 240  
aacacaactc caaactcgaa agtggaggac acatgaacag ccctaagcaa taacattcat 300  
gtggctccga agcangatga gaatggagga ttgcctcgag ggtcctctct tatgaaatca 360

tgaaactcaa ctccacactc gaaagtggag aacacatgaa cagccctaag caataacatt 420  
catgtggctc tggaacagga tgagaatgga ggaatgctn gagggtcctt cttagctat 480  
cat 483

<210> 152  
<211> 479  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 152

agctngaaca cctattagta tttatatltc ttaaataata aatgtatgac atcaactcgt 60  
cattggctcc caggtagtg gattaagcaa aatagaccaa tacaaactca cgggttaagt 120  
cacctaacc c attgatccaa agtttacatt gtcacctcta cattagtgc tntttgttgc 180  
ctttgtttcc ttttagcttt ntgtgtataa aaatatattt tttcttgtgt gaaatatattg 240  
tttggaaatc agttttaact atataataaa attgatgggt aagtttaata tatattttaa 300  
cagtcttgat catttgatta tgaggacttg gataaaatat atattcttca aagttttgtt 360  
aatataactt ggtaaataa attctaattt tataaactat ganaaaatac aaaaggtaga 420  
tgaattcaag ctcaacacaa tagaacaagt accaacanat actatcatac atttgacat 479

<210> 153  
<211> 313  
<212> DNA  
<213> Glycine max  
<400> 153

tctcctacca ctgccttaca atagtcacat agcaatatgt tggcagcctt cacatctcta 60  
tggattatct ttggatcaca ctgctcatga acgtatatata gctcccttgc tgctcctaag 120  
gcaatttgct ttcttgtgcc ccagtcacac actggcttac ctgcaaatat ccatcactgg 180  
tatatggatc agccactcaa cttacatagc acatgcattg tcattctagt tctggttaca 240  
taaactttct tatatgcacc tttgagaaga acataagaag ttagaatcaa tttatgtacc 300  
ttagttattg gag 313

<210> 154

<211> 402  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 154

```
agctngcgaa taattaacac agaatngtac aaaattctta tgatacatga tcaaatttat 60
caaaaaanat aataatgacc cctgaagcta tcttggtgac agtgacaata agttgagcct 120
tgtgcagcaa aacttagtgt tgagtgaagg atgacttggt gcttgtgaat tgacttaacc 180
agtttttgac agctttacct ttggcaatga agcagccatt gttcttccta tcaaccttca 240
acggactccc cattttgacc atcatcttct gaaccaacac tctcaccggc gactctcttc 300
tgacactgct atgctttccc aaccacana ccaccgtaaa ttccgcagga actccataat 360
tggaatcatt caaccttctt ccactctctc aaccaaagca ca 402
```

<210> 155  
 <211> 436  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 155

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tcttagatag caacttgtn tgtgctagta atgcatcttg agaggaaagc tccaggaagc 60
ttctttttgt gggaaatga gtccgatcac acaagatggc atgatcactt gcagccatgt 120
tctcaataag ctccatggct tcttctgggg tcttcaattt aatttttccc ccagcagaag 180
catcaaataa ctgcttgagc tgtggcctta acccatctat aaaaatgttg aactgaattg 240
gttctgaaaa tccgtgagtc agtgttttcc gcagcaagct atggaatcgt tcaagtgtt 300
cgcttagaga ctcatccaga aactggtgaa atgaaaagat ggntgctttt ccttctactg 360
tcttagactc ggngaaatat ttcttcaaac atttctccac caattcatcc catgtcttga 420
gactgtntcc cttaaa 436
```

<210> 156  
 <211> 455  
 <212> DNA  
 <213> Glycine max

<400> 156

tctttgagaa aacttccttg agaagctaga gcttagctac actcaccct ctaataacta 60  
 agctcacctc cttgagaagc cttcttgaga agattcctat agaagctaga gcttaggtac 120  
 acacacctct ctaatagcta agctcacctc cttgagatga aaagctagag cttagctaca 180  
 caaccctat aatagctaag ctcaccccca tgacaaaata catgaaaata caaaaaattc 240  
 cctactacaa agactactca aaatgtctcg aaatacaagg ctaaaaccct atactactag 300  
 aatggccaaa atacaaggcc caaacgaagg aaaaacctat tctaataattt acaaagataa 360  
 gcgggctcat atttagccca tgggctcaaa atctacccta aggctcatga gaaccctagg 420  
 gccttccttt ggatctctgg cccaatctac ttgga 455

<210> 157  
 <211> 285  
 <212> DNA  
 <213> Glycine max

<400> 157

gtataaccct tcagtttcaa tccagagtct ccatatatga ggaatgggtc tttagttctt 60  
 cttaagtact taagtatggc cttaactact ttccaatgtt cctcaccagg gtttgcggtga 120  
 tatcgactag ttacacctag tgcataagcg acatcaggac gtgtacaagt catgggtgtac 180  
 atgatagctc ccactacact agcatatggc attctactca tgcgttctct ttcttcaaga 240  
 gttgttggac aatgttcctt actaagagtt attgcaacgc ctaca 285

<210> 158  
 <211> 460  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 158

tactaaaaaa gccattatt gtcttatctt gctttcattg acaacctagn ttntgttggt 60  
 gaagctacaa tggatcaagt agaaatgatg ttgaattcc ttaattactt gtattagatc 120  
 tgggcaagta aacaacaagg acaagacgaa ggtgttcttt tataaaaaaca taggcgatat 180  
 catgagaatt tagattaatg gcaagttggg ttttggtagg accaatgaca tcaacaagta 240  
 tttaggagtc aatatcaatc atgggagggt ttccaaaaaa tccttgcatg ggatcattga 300  
 caaagtctag aagtggctca gtgtttggaa aaagaggtca ttttccttta cgaggaggtt 360

gacattaact aaggcagctc tcaatgttct tccatcctac accataagcc atcgcacatc 420  
ctttattcag ctngtgatga gttagacana atatgtcatg 460

<210> 159  
<211> 408  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 159

tcaacattca atttcgagcg tctcgatata ttacgagcct caatcagaca tgcgagtaaa 60  
aagttatggc cctttgtatt ggatcagagc ttcaacattc aatttcgagc gtctcgatat 120  
gttacaggac ttcatcagac atcagagaaa aaagttatcg tccgttgagt tggctcagag 180  
attcaacatt caatttcgag cgtctcgata tgttacggga ctcaatcaga catccgagaa 240  
aaaagttatt gtcgattgaa ttggctcaga gcttcaacat tcaatttcga gcgtctcgat 300  
atgttacggg actcaatcat acatccgagt aaaaagttat tgcgtttga ataggctcag 360  
agcttcancg ttcaatttcg agcgtctcga tatgtacggg actcaatc 408

<210> 160  
<211> 388  
<212> DNA  
<213> Glycine max

<400> 160

aattctatca atagaccttc aatctttaat ggagagggtt accactactg gaaaaccgca 60  
atgcaaattc ttatcgaggc aattgatcta aatatctggg aagccattga aatagggcct 120  
tatataccca ccacagtaga aagagtttca atagatggta gttcatcaag tgaaagcata 180  
accatagaaa aacctagaga tagatggtct gaagaggata gaaaacgagt acaatacaac 240  
ctaaaagcca aaaacataat aacatctgcc ctaggaatgg atgaatattt cagagtttca 300  
aattgcaaga gtgctaagga aatgtgggac actcttcgat taacacatga aggaactaca 360  
gatgttataa gatctaggat aaatgcac 388

<210> 161  
<211> 392  
<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 161

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gtgttggaac gcatgcagaa gagcctcgag cttgaggatt ggcacatgga gccttctaga 60
atgacacttt acaggtttgg caacacgtct tctaactcgg tctgggtatga gttggcatat 120
tgtgaggcca acgggaggat taagaaaggt gatagggttt ggcaaattggc gttcgggtcc 130
gggttcaagt gtaacactgc tgtgtgggtt gctttgaata cgatcgaacc agggtcacac 240
aagagtccgt ggagggatga gatacataat tttcctgtca aggctgatcc acttccttgt 300
gagagaacaa atgaatgaat aatccaatca tgcacatttg ggtttgggaa tttctganga 360
aagtatgtgg tctgaattga ttattagtat ta 392
```

<210> 162

<211> 324

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 162

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accacttcca ggcgtgctgg aactacttca catggacttg atggngccta tgcaagttga 60
aagccttgga ggaaagaggt atgcctatgt tgttgtggat gatntctcca gatttacctg 120
tgtcaacttt atcagagaaa aatcagacac ctttgaagta ttcaaggagt tgagtctaac 180
acttcanaga gaaaaagact gtggcagaga gtttgaaaac agcaggttta ctgaattctg 240
cacatctgaa tgcactcactc atgagttttc tgcagccatt acaccacaac agaattggcct 300
agttgagagg aaaaacaaga cttt 324
```

<210> 163

<211> 393

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 163

```
cagcttgtgc ctttcatgtc tggaatatga atgtttatat agattcaaag aaccttatgt 60
gctttgctga tggcttattc cgttccaag gcttcaatgg tgtcttgtct ttacagact 120
tagttggaca tctgttgagt atgtaaacag cagtgtagac tgcttcagcc cagaatgtgt 180
```



taggtagtcc cttctccttg agccatcgat ctaagccatt ntccataaat tgcgcaattc 240  
 tttctctctg acacttcatt ttgttgagga gaatatgtga ctataagttg tcgctcaatg 300  
 cctncatcct cacaaaaatct ttcaaaactcg cgagaggtgt actctttgcc gtgatcactt 360  
 cttagtactt ttatctcggt tccactttga ttt 393

<210> 164  
 <211> 461  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 164

tataaggctn tgagtgggaa atgatagtga gactcaactt gtataccaac cttgtgctac 60  
 aacaattgta gcaagaccta gtatccataa tgagagaaga atttttgttt aaaaccttgc 120  
 atcttgtatg aaagatgttc tctctttagg ttggggttag gtcacaagat taacttgttg 180  
 gatcgagtgg cctcagaaca attaagaagg ggggggttaa ttaattattc ttaaaccctt 240  
 actaattaaa aattactctt ttaaggcttt tactanattg ttaagagaat gaggactaga 300  
 agagaaactt aacagaaagt aaaagcagaa attaaatgca caacggatag taaaagagta 360  
 gggaagaagg aaacaaacac acaagagttt ttatactggt tcggcaacaa cccgtgccta 420  
 catccagtcc ccaagcgacc tgcggctcct gagattcttt c 461

<210> 165  
 <211> 431  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 165

gagtttggag tgcacatttg aattacaaag atgtggagag ccatgaaaga agcaaagcaa 60  
 ctagtggaag ggaatgagag ggaacaatat gccaaagtat ttgattatgc acatgaattg 120  
 ttgaggagca atcctggatc aacagttaag atcaacacag tgccaagtcc agaaggtcca 180  
 ccataatttc agaggctatg tatttgtctt cctggctgta agaagtgggt tgttgcctga 240  
 tgtagaccat tcataggtct agatggatgt ttctaaaga gtgcatttgg aggaaacttg 300  
 ctctctactg ttgggcttga tggcaataac cacatctttg ttattgctta tgctgtggtg 360

gacattgaga acaaagacaa ttggaaatgg tttctaactt ctgtacatga agatncttgg 420  
gattatatac a 431

<210> 166  
<211> 406  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 166

actttatata agaatgaagc tctgttacca cttgttagac aagtggcctc agatatctta 60  
agaagggggg gttgaattaa gatattccaa actacttccc caattaaaaa tctatttcac 120  
tttttattca agttataaat tcccttaata atgaacttct taaatattga ttcaaataaa 180  
acaatttgaa tatgaatata aaacaataat aaacaaagga gattaagggg agagaaagtg 240  
caaactcaga ttatatactgg ttcggccaca ccttgtgccc tacgtccagt cccaagcaa 300  
cccgttgag agtntcacta tcttgtaa atctttttaca agttctaaac acacaaggac 360  
aatccttctt ttatgttttag aattccttta caacaagaga cccacg 406

<210> 167  
<211> 462  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 167

ctcagcttgc agaatgtact ctacttaatt ttgaagattg tttcaaggaa gcatatatat 60  
attcatcagg aaaacatcat agtgggaagga aattgcagtg ttgtgatcca gaagatcctt 120  
ccaccaagc ataaagatcc tgggagtgtg acgattcctt gttcaattgg ggaagtcaat 180  
gtgggaaaaa ctcttattga cctgngagcc agtatcaatt tgatgccact ctccatgtgc 240  
aaaagattgg gagagtggga aataatgccc actcgaatga ctttacaatt agctgaccgc 300  
tccattacca ggccatatgg agtaattgaa gatgttttgg ttagagtaaa acattntatc 360  
tttccggcat actttgtggg aatggatata tttgaagcta ctgacatccc tgtaatattg 420  
ggaaggccat tcatgttgac cgcaagctgc atagttgata tg 462

<210> 168  
 <211> 442  
 <212> DNA  
 <213> Glycine max

<400> 168

tctcacagat aggacatgca tgatgccttt tcacactata tccacttaaa tttccatgatg 60  
 ctggaaaatc attaatagta caaaacacca ttgcgtgtaa tgtgaatgtc tgctgcacat 120  
 ttgcatccca cacatctact ccttcttccc acaatatttt caagtcttcg attaatgggtg 180  
 taagatacac atcaatatca ttccctggct gccttggacc cgtgatcatc atacacagga 240  
 taatgtatTTT acacaaaatg cacaactagg ggggaagctt gttaaTcatc agtaaaacag 300  
 gccacgaact atggTtgctg cttaagttac cataaggatt cattccatca gaagcaagag 360  
 caacccttag gttccttggc tcgtccctaa actctggata caaacaatca attgtcttcc 420  
 attatggaga atcggtagga tg 442

<210> 169  
 <211> 262  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 169

tactcagctt gctgattaca tctnccccctt tctcaagcaa attcttcttg atatcatcaa 60  
 aatcttcatg atcccgactc gttggtggag gatgcatgaa tgacaatcaa ttcattggcgc 120  
 ttcgaataaaa agtggagaat ggaggatatg cgaatagcgc taggcaatca atttgcggtc 180  
 tcccgactcg ctggtggagg atgaatgaat gacaatctac tcatggggct ccgaataaaa 240  
 gtttgaaatg gaggatttga ga 262

<210> 170  
 <211> 405  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 170

actcggatgt ctgattgagt cccgtaatat atcgagacgc tcgaaattga atgttgaacc 60  
 tctgagccaa ttcaaacgac aacaactttt tactcggatg tctgattgag tcccgcata 120

tatcgagacg ctcggaattg aatgttgaag ctttgagcaa attcaaacga caataacttt 180  
 ttactcggat gtctgattga gtcccgtaat atatcgagac gtcanaatt gaatgttgaa 240  
 gctctgatcc aattcaaacg acaataactt ttactcggga taattgattg agtcccgtaa 300  
 tataactaga cgctcgaaat tgaatgttga agctctaagc caattcaaac gacaataact 360  
 ttttactcgg atgtctgatt gagttccgtc atatatcgag acgct 405

<210> 171  
 <211> 395  
 <212> DNA  
 <213> Glycine max

<400> 171

cgagcgtctc gttatattat aggactcagt cagacatccg agtaaaaagt tattgacggt 60  
 tgaatttgc t cagagcttca acattcaatt tcgagcgtgt tgctatatta cgggtactata 120  
 tcagacatcc gaataaaaag ttattgtcgc ttgaatttgc tcagagcttc aacattcaat 180  
 ttcgagcgtc tccatatatt acgggactca atcagacatc cgagtaaaaa gttattgtcg 240  
 tttgaatttg ctcaaagctt caacattcaa attcgagcgt ctcgctatat tataggactc 300  
 agtcagacat ccgagaaaaa agttattgac gttggaattt gtcagagct tcaacattca 360  
 atttcgagcg tgctcgtata ttacgggact atacc 395

<210> 172  
 <211> 447  
 <212> DNA  
 <213> Glycine max

<400> 172

agatttgtgt tgattatata tcccttaata tggtggcggg gccagacaaa ttcccaattc 60  
 cagtgttgga gttactgggt gagttaggga aggctgttgt tttttctaaa cttgatttga 120  
 aatctgggta cagattttta agatgccctc atacagaggt tccaaccagc atccatggta 180  
 aactcatttg aatccttggt aacactcaaa caagatcaag ctgttcacga attcatgaca 240  
 cagtttgaga aatatgcaag gtctgtgaag gggtttagatg agcagtattt gatgggaatt 300  
 ttcatcaatg ggctaaaaga agagatttct gctgaattat gggtgtatga gcccaagacc 360  
 ttgtcagaag caatgaacaa ggcaggaaat taagaagaaa tagaataact gatttattat 420

tgattataaa gaaataagac aaacaat

447

<210> 173  
<211> 333  
<212> DNA  
<213> Glycine max

<400> 173

gaggcagcat tatgcacaat ttctaaaaac tcttttattt tttatctaaa tggcaatcaa 60  
actgaagtga acctttatgc ctggacacca cctaaactgt ttacatttgc ttgatgttat 120  
tatatggatt gtttctactct ccaggctgag gagaggcact gtgagaatct aggtcgactt 180  
ttgtgcactg ctaagctggc tgcaaagcaa gaaggtcctg atgatggcct caggattgta 240  
attaatgatg gacgagacgg gggtaagcat tcttctccat gtcattgtag taacattggc 300  
caatcagatt ttatttgatt cataggttct tgc 333

<210> 174  
<211> 392  
<212> DNA  
<213> Glycine max

<400> 174

aacagaacaa ttatgacctc tctagcaaca gataaacctt ggatggagga atcacccctaa 60  
tctcagatgg tctagccctc aacaacaaca acagcagcct gtccttctct tccaaaatgc 120  
tgctggccca agtagaccat acattcctcc accaatccaa caacaacaat agccccagaa 180  
atagccaaca gttgaggctc ctctgcaacc ttcctctgaa gaacttgtga ggaaatgacc 240  
atgcagaaca tgcagtttca acaagagacc agagcctcca ttcagagctt aaccaatcag 300  
atgggacaat tgacaacaca attaaatcaa caacagtccc agaattctga aaagctgcgt 360  
tctcaatctg tcccaaatcc caaaaatgct ag 392

<210> 175  
<211> 448  
<212> DNA  
<213> Glycine max

<400> 175

cctgcacgca tgcaagctat acttctactgc ttcaagtagc gcatgattgt cttccatagg 60

aaaaactttt tctaaagggtt actattacac caagaagata ctgtaccaga tgggaatgga 120  
 gtatgaaaag attcatgcta gcccaaataa ttgtgtggaa gaaatgtctt ccaagattat 180  
 tttgatgatg ccaaagaatc aagagtcaag catgttccaa agaatacaaga gtcaagccag 240  
 tttcaagaat catgatcaag atttatgatt cgagaataat catgatcaag attcaggtac 300  
 tgcactctaga ctcaagattc aagaatcagg agaagactca atcaagataa gtattacaag 360  
 aatTTTTTca caacattgaa tagtagaata atTTTTctaa aagaaaaatc ttttaccaaa 420  
 gagttttact ctcaggtaat cgattacc 448

<210> 176  
 <211> 467  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 176

tgtcagcgtg tccaagaccg ccacctctgt cattgtcctt gctgcatgtc gaatttggaa 60  
 atgcactcgt gccttagatt tgaaaataca cttcacgctt tagatctaaa aatgcactac 120  
 acctcagatt cataatgcat ggccttgca acaacagatt tgtcgcgaca atctcccaga 180  
 gaaagtccca atcggccttc ttgtttgtgca tcttgtcgtg attgatggta atgccaacga 240  
 cattggcgca agagtgggtt gtgatgggtc acatgggcct accgacaccg taacccacgt 300  
 cgaggattct gttgtcgggc ttggcctcga cactgtcaag gaggagtgtg gaagacgtcg 360  
 gtgatggagc tgctagaggt ataagtaa atcggttatttc atcactttca tgacccaacc 420  
 cacaaaagga accttattnt atttatnttg gctctcctaa ttaatca 467

<210> 177  
 <211> 422  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 177

agcttaacga aaggcatgcc aagtagngg aattcctaaa gctatttcct tatgttatca 60  
 aacataaaaa gggaaaagggt aatattgtag ccgatactct ttctcagcgt catgcattac 120  
 tttctatgct tgaacaaaaa ttgattggtc ttgaatgttc gaaaagcatg tatgatatgg 180

aagcaatgtc ttccaagggtt antttgatga tgccaaagaa tcaagagtta agcaaagttt 240  
 caagcaaaga ttcaagattc aagaatcaag tttcaagttt caagattcaa gattcaagat 300  
 ttaagaatca agattcaaga aaaatcaaga tcaagattca agaatcaaga gaagactcaa 360  
 tcaagataag tactaaaaag tttttcacia cattgagtag cacatgaagt tttctcataa 420  
 tc 422

<210> 178  
 <211> 476  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 178

actcctctta tgtggagtgg tgatgggtgt ttattccttt tcattgngat agttgtatgg 60  
 attctggaac acaggataaa tgatgagttc aggggtccac ctaggcagca aattataacc 120  
 atgttgtgggt caattattta tttcattatc ttactattgt acctagcata atagttgcac 180  
 accttttgca tattcaagct ataaacgaaa actacaacta gaagtagctt tgctgtgggc 240  
 catggaaaac aacattggca gcacctgttt gtttgtagc atcatatata cacaaggagg 300  
 ttatcatttg tcagtcattg tattggaaag attccaggat catcatccat aaggcattnt 360  
 gtagtcaaga tatttgtgat gatagcttct cggttctcac aacatgaatt tgctatatctc 420  
 aggaattctg ttctgaagta tttatggaat atttgtttca gaaatttcta agatta 476

<210> 179  
 <211> 385  
 <212> DNA  
 <213> Glycine max  
 <400> 179

tatgagctta taaattcaga ttaaaggagc tgaatgcttt ggatgctggg agttctgaca 60  
 gaaatctgaa tcaatcagaa gtggagctca tgaagtctct gcaggagcaa ttgtggcatg 120  
 ctgctaattgc ctatgaatct ttgctgaggg aaaaggctat agtgaaatgg ttaaaggaag 180  
 gggacaaaaa ttcagcttac ttccacaagc tgataaatca tagaagaaga cataatgcc 240  
 ttcaaggatt gatcattgat ggggaatggg ttcacgaccc tagtaggggtc aaaactgagg 300

ctttcaatca ttcaaagat agaatttctg agcaagaatt taatagacca accctggatg 360  
 gtgtgcagct acctttcatt ggtca 335

<210> 180  
 <211> 425  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 180

agcttgctta agaccgtata ttgatttctt taatttgcac accatgtgtt ccttcccttc 60  
 aactgagaat ctcatggnt ggtccatata aacatcctcc tctaaatctt cattcaaaaa 120  
 ggcagntttc acatccatct gatgtagctc caagtcataa tgggctacta atgtcatgat 180  
 aattctgaaa gaatcctttc atgagatggg tgaaaacttc tctttataat caatgccatc 240  
 tttctgagta aatcccttat caacaagtct agccttgtaa cgttcaaggg tgccatgaga 300  
 gtcatgttta gtcttgaaga cccacttaca accaactctc ttacaaccct ttggtaattc 360  
 tacaaggtec caaacaccat tatgttccat ggaatctatc ttttctttca tggcatttaa 420  
 ccact 425

<210> 181  
 <211> 350  
 <212> DNA  
 <213> Glycine max  
  
 <400> 181

cagctgtaga cactgggtct cccacaagt acttgggcat actcttgcct ttcaacatgc 60  
 ctctaccat attcaatatg gttctgtgtt ttctttctgc agctccatta tgttgagggtg 120  
 tgcttggagg agtcacttca tgaattatgc cttcttgatc acaaaattct tgaaattctg 180  
 cagaaacata ttaccacca ccatttgttc tcaatatctt gatcaatgag ccactttgcc 240  
 tttctgccat atttttgaac ttcaaagac ttcaaagaca tcactcttcc ttcttattac 300  
 ggaaacccat actttcctag tccattcatc aataacggat atgaagtatc 350

<210> 182  
 <211> 221  
 <212> DNA  
 <213> Glycine max



<400> 182

tctctacatt gcatcacctt ttaatgagct ggtgaagaaa atgtggcatt tacctggggt 60  
gaaaaacaag agcaagcctt tgctttgctc ataaaaaagc ctactaaggc acctgttcta 120  
gctcttcctg actttttctaa aacttttgag ctagaatatg atgtctctgg agtgtgagtt 180  
gggagctgta tttgttacac aggtggcgcc accctatttg c 221

<210> 183

<211> 455

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 183

taccctgatg aggatgtccc atatgttctt aatactggac tgatccatnt gcttccaaag 60  
tttcatggcc ttgcagggtga agaccacac aagcatctga aagaattcca tattgtctgc 120  
tccaccatga aaccaccaga tgtccaggag gatcacatat ttctgaaggt ctttcctcat 180  
tcttttagagg gagtggcaaa tgactggcta tattaccttg ctccaaggtc catcacgagc 240  
tgggatgacc tcaagagagt attcttagaa aaacaatttc cctgcttcca ggaccacagc 300  
catcagaaaa gatatttcat gcattagaca actcagttga gagagcctat atgaatactg 360  
ngagagaatt aaaaaattat gtgttagttg cctcaccac cagatttcat agcaacttct 420  
cctccaaata ttttatgaag gactcagcaa catgg 455

<210> 184

<211> 419

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 184

cttgngaaca ttaccttggt tccaaggaat ttgtcattca tagtgatcat gaatcactta 60  
agtacattag agggcaaaac aagttaaaca aaaggcatgc aaaatgggta gagtacctag 120  
agcaattttc atatgttatc aaatacaaaa agggaaaaac aaacgtggta gttgatccct 180  
tctcttgagg acacatattg ttttactccc taagagctca nattntagga tttgataaca 240  
ttagggactt gtatgcttta gatgaatatt tctctcccat ttatgagagt tgtgggcaaa 300

aggccccaga nggattctaa ttggctgagg ggtatttggt canagagggg aaactttgca 360  
 taccccaagg atccatcagg aaattacttg tgaaagagag ccatgaatgt gggctcatg 419

<210> 185  
 <211> 261  
 <212> DNA  
 <213> Glycine max

<400> 185

ctcacgctgt ttcattgtaaa cctcttcttc ttatcaccat tcacgaacgc cgttttcaca 60  
 tccatttgat gcagctcaag atcaaaatga gctactaatg cccaaattac tcgaagagag 120  
 tctttcttat atacagggga aaaggtctct ctgtaatcga ttccttctct ttgagtgaat 180  
 ccttttagcaa caagtcttgc cttatgtctc tcaatgttgg cttctgagtc tttctttggt 240  
 ttgaagaccc atctacattc g 261

<210> 186  
 <211> 354  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 186

ctcagctcgt cttaccatcc acaatcttac ggtcagaccg aggtggcaaa tcggatagta 60  
 taacaatact tgagggcctt cgtccatcgc aagccagcgt tgtggggacg atttctgttg 120  
 tgggcagaat ggtcgtataa tacttcgtgc cattcgagta cgggattaac tccgtttgaa 180  
 atcacctteg ccgaaaacca ccagctatcc ctgaatacat angtggaaca tcacaggtgt 240  
 cataccctaa tttcgtccgg ggaccatccg tttgttggga tgcgaccctc gtttgaccac 300  
 ttcgaggtag ttggcaccca tcgttaggca atctgtgaag tttcgtgaca tgct 354

<210> 187  
 <211> 416  
 <212> DNA  
 <213> Glycine max

<400> 187

gtgtgattcc tttctttttc ttatcattct cctcatgttg attcagttct attagttcca 60

tttcgtgttc ctataacttt ccaaataaag ttgcaagaga catgttagaa agatcccttg 120  
 attctgtaat agttgttacc ttgggtgtc attccctact taaacatctt agaactttat 180  
 taataagatc ctcatggga aatatctttc ctaatgatgc aagatgattt actatgtgtg 240  
 tgaatctctt ttgcatatca tgtatagttt catttggatt cattctaaac aattcatatt 300  
 catgggttaa ggtatcttatt ctagaacctt ttacatctat tgttccttca tgggttactt 360  
 gtaagggtatc ccacatatct ttgcaactct tgcaatttga tactctaaag tattca 416

<210> 188  
 <211> 471  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 188

agctntgcat ggatgccaca cgtgaatctt ctgtatcatc catcatttct ttcattcaca 60  
 accccaacaa gatgtagtac actagagtta tgggcaaagc aatcagcatc ccaaaaataa 120  
 cactgcattg ggttaaagaa gaagctccat tgggttaggat taaaagagaa agtaattgaa 180  
 tgaaaaggaa aaaggaatgg aggggagaga aagtttcta ttagccatat aagaattaga 240  
 tttgaatact cacgctgtgc tgagaatatac aggatgtaca ttatattcct tagcaaagac 300  
 aaatgggaca attccttggg gaagagctgc ctatatcttt ttgacattca gttgccaaac 360  
 aaacaggaca agcaaacaaa caaacatgtc aactgcagtt tcaaatacctt ggtgtacaat 420  
 cacaacatg atcatngaa tctcactac tagtactaag atcttcaatt t 471

<210> 189  
 <211> 412  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 189

cttgacagct ctatggacca tgctatcatt cttctgtcta gcttagtatt tcttagcacc 60  
 ttcttgatgg ggtgatcctt cttgacgatg atctaagggc tctggaagta cggcttgagg 120  
 cgttgagcag aggttatgag tgctagcgcc actttctcga tcatttggtta tctctttcca 180  
 acatcatgaa ggatgtgact gacaaagtag atgggtgttt ggtactttcc atcttcttgg 240

acaaggggtg aactaatggc tttttctgcc actgaaaggt ataggaatag ggatgctcca 300  
 ngcttangtc aacttataac aggtggtggt gcaatagttt tctttatagc tagganagct 360  
 tgcttacagg ctctgtttca caagaacgac tcgggttttcc tgagtagctt at 412

<210> 190  
 <211> 408  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 190

agcttgcttc tacactaaga agcactctat attgagtga taccacaaaga gagaacaacc 60  
 accaaaattg aggaccgttt tgtaattntg taatttacia ttacttacc ttcatttctt 120  
 tcaagttttg taacaaaaag gcctttcatt ggaagtgtgt tgggagcctc caataagtta 180  
 ccaaacttcc atttgtgtgt aataattcta ggcaattttt ccttaagata tgagtggttt 240  
 tgttggaac cttgaatgtg gtcacccaaa cactcttang atttgcctag ttacatttc 300  
 ttgcttactt tcatagctta tttcctttac ctccctttt aaaaccacct agatagtttt 360  
 ccttttacca attagttntt ttaccttacc tttcacacct cttttagt 408

<210> 191  
 <211> 463  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 191

gctttgatca aagtgttcga gggggagcaa gcaagatag aggataactt tcttcttggg 60  
 aagtttgagc tttttgggtt cactacatcg ccaagaggag ttccacaaat caatgtttta 120  
 tttgatgttg acgttgatgg catcgtagaa ttcattgcta gagataaaat catgaggatg 180  
 aaaaaaagga tcatgatcga caacaagtac tggaggttga gtccctaaga gatgaggaga 240  
 atagtgat atgcaaagag gtataaggca tangatgtgg aggttaagggc aaacggaagg 300  
 ccagaacttg cttgagaatt gtgcttttga aatgatggac aaagtgaaga atcttaagaa 360  
 attagtacc atagcaacaa tgttatntt tttagtttca ttaacaattc agtaaaaaaa 420  
 aataccgtgc gctaacttga aatgcccnct gcacacatgg ata 463

<210> 192  
 <211> 383  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 192

agcttagccc tagaggggat ggaccttttc atgttttgga gaggatcaat aacaatgcct 60  
 ataagttggg cctcctagaa gagtatgcag ttagcaccac ttttaacatt tctgatttaa 120  
 ttacttttcc aggtggagct aatattgagg aggaggaact aacaaatttg agatcaaadc 180  
 ctettcaagg gggaggggat gatgcaatcc tccctaggaa gggccagtca ctagagacat 240  
 gagcaagagg ctccaagagg attgggctag agctggtgaa gaaggcccta nggttctcat 300  
 gagcctcatg gtagatttct gagcccatgg gacaagggtg ggtctaatta tctttgtaca 360  
 tattaacta ngatgtcatt ata 383

<210> 193  
 <211> 472  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 193

agctatgtgg caagtacaaa ggtcataaac gcgcccgtta tattatcagg tcttgctttg 60  
 gtggccttaa gcaagctttt attgctagtg gaagtgagga ttcacaggta tgaatcttca 120  
 atcatcattg atcaaatgg gaaaatattc gccagtgtaa tttttataa tttgcaaatt 180  
 gaaagccttg atgtttatat gtctctgtta aatgtgtttt atttgctaag tttttatagc 240  
 tgtctcaata atttgttaaa ataagttcaa catgcacttg atgcatgcta tcgaggatca 300  
 ctaaaatatt ggcataaaag acccatgaaa tggttctttg tggctctgatn tactggactt 360  
 gaatgaattg aactacacat cgctataatg ttcaagagtt cctggcttct gcaatattat 420  
 tctagtttat cttgataaaa ctaggaacat ctcgattgat aatgctggaa gt 472

<210> 194  
 <211> 410  
 <212> DNA  
 <213> Glycine max

<223>      unsure at all n locations  
 <400>      194

tattccatat tggggaatct aaaataacag acaattgatt gtacaaaaca atgataggag    60  
 taaaatctag taacatcata atttaaactc actgcaacgg ataaatgaca atcaccatac    120  
 tcaagagcct catggataat gataagatct tcaactaccct aatctaagaa aattagacga    180  
 taaaacaatn tatgtttggt gattacatag tggcactaat atgtaaatgc aaaaatgctg    240  
 acctggccat gttcattgaa agtatcgagt ccaacaattc caaggtcaag atctccagat    300  
 aacaattttc ttgtgatgta tttgggcctc taaaaccaa ctttgagttt ggatagctgc    360  
 aataatgcaa gagaattggt ttatgggtcat gtagagatat agtacattga                410

<210>      195  
 <211>      331  
 <212>      DNA  
 <213>      Glycine max

<400>      195

tccattgtcg aatttcgagc gtctcgatat atgatgcgcc taattctgac ttccgagtga    60  
 agagttatga ccatttgaat tactggcgag cttccgttga tcaatttcga gcattctcaa    120  
 acattatgcy ccttaatcgg acatccgagt gaaaagttat gaccatttga agttctcgag    180  
 agcttccgtt gttcaatttc gagagtctcg atatattatg tccgtgaatc tgacattcat    240  
 gagaaaagtt atgaccactt gaatactcga gagctttcgt tgtcgcattt cgagcgcctc    300  
 cgtatattat tcgcattaat cggactttct a                                        331

<210>      196  
 <211>      300  
 <212>      DNA  
 <213>      Glycine max

<223>      unsure at all n locations  
 <400>      196

tttccatatg tcatcaaaca taaaagggg aaagggaatg tagtggctga tgcactgtct    60  
 aggagacatg ctttacttgc tatgcttgaa actaagttgg ttggctcga gtctttgaaa    120  
 gacatgtatg tgcattgatg ggactttgct gaaatttttg ctgcatgtga aaagttttct    180  
 gaaaatgggt actataggca taatggattc ttggttaaag caaataaatt gtgtgtgcct    240

aagtgttcca ttagagagtt gcttgtgagt gaatcacatg agngggggtt gatgggacac 300

<210> 197  
 <211> 461  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 197

tcaacatcag accacttcca ggggtgctgga actacttcac atggacttga tggggcctat 60  
 gcaagttgaa agccttggag gaaagaggta tgcctatggt gttgtggatg atttctccag 120  
 atttacctga gtcaacttta tcagagagaa atcagacacc tttgaagtat tcaaggagtt 180  
 gagtctaaga cttcaaagag aaaaagactg tgtcatcaag agaatcatga gtgaccatgg 240  
 cagagagttt gataacagca ggtttactga attctgcaca tctgaaggca tcaactcatga 300  
 gttctctaca gccattacac cacaacaaaa tggcatagtt gaaagggaca acaggactnt 360  
 gcaagaagct gctanggtca tgcttcatgc caaagaactt ccctataatc tctgggctga 420  
 agccatgaac acagcatgct tcatccacaa cagagtcaca c 461

<210> 198  
 <211> 402  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 198

tatccncata agagtgcaga acagctggcg agtcagcatt gattatagga ggctaatacca 60  
 ggtaacccaaa anagatcatt ttccctgcc attcattgat canatgcttg agcgttggc 120  
 aagtatgtct cattacaatn nttttatggt tnttctgggt atttaciaat tcatattgct 180  
 cctgaggatc aagaaaacac cacattcacc tatccctttg gcatttttgc ctataggagg 240  
 atgccctntg gcctatgcaa cgctctggt accttccaac ggtgtatgct tagcatntc 300  
 aatgattntt tagagagttg catagatgtg tntatggatg attntactgt ttatggatcc 360  
 tcttntngat gcatgttgga tagtctagat agagttctta at 402

<210> 199  
 <211> 446  
 <212> DNA

<213> Glycine max

<400> 199

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agcttatgct gcaaacatct acaatagacc ttctcaacct caacaacaaa atcaggcaca 60
acagaataac tatgacctct ccagcaacag gtacaatccc ggatggagga atcatcccaa 120
ccttagatgg tcgaatccgt cacaacaaca accttatttt caaaatgttg ttggcccaag 180
cagaccatat gttcctccac cattccagca acaacaacaa caacaacatc cccagaaaca 240
gcaaacagtt gagggccctc cgcaaccttc ccttgaagaa cttgtgaggc aaatgactat 300
gcaaaacatg cagttttaac aagagaccag agcctccatt cagagcttaa ctaatcagat 360
gggatagttg gctacacagt taaatcaaca acagtccag aattctgata gataccttct 420
aatctgtcag aatccccaaa tgtgag 446
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<210> 200

<211> 465

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 200

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cgtgcattca atatcctgat gaggagggtc catatgtctc aagactggac taatacatTT 60
gctgtccaag tttcatggtc ttgcagggtga agatcctcat aagcatctta agaagttcca 120
tattgtctgt tccaccatga agccccctga tgccacgaa gatcatatct ttctaaaggc 180
ttttctcat tctctggagg gagtggcaaa agattggctg tactaccttg ctcccaggtc 240
cattaccagc tgggatgacc ttaagagggt gttcttgggg aaattcttcc ctacatctag 300
gaccactgcc atcaganaag acatttcagg catcangcaa cttagtggag agagcttgta 360
tgagtattgn gaaagattca agaaattgtg tgcaagttgt ccccaccacc agaattttga 420
gcaactcttt ctgcaatatt tctatgangg acttancaac atgga 465
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<210> 201

<211> 409

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 201



tatgcattgt ggaatttcac cagagagagc attggttgaa acatctcaac ttgttgatgc 60  
 ttccagctta accgacttca aagggttaggc ttccattga acgagttgtg ggacaagttc 120  
 aataacaatg acaagtanga aagaccaatg acttgcaaag gaatagttcc actaattctg 180  
 ttgtgtgaaa ggtcaagggt attgtaaatt tggcaattcc caacaccagg atgtatgctt 240  
 ccttccaaca cattatttga caagtcaagt tgaaacaaaa gactaagggt gccaatggat 300  
 aatggaattt ctctgacag ttgtctcaca tttaaattca atgactgcat cttttggaac 360  
 atgacaaaag aagcaggaat agtcccagta atctgatggc caccaatat 409

<210> 202  
 <211> 393  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 202

ctattacgga cactatagat actcagctag aattgaacac ggaagctctc aagaaattca 60  
 nattgtctta tactttcaca cggaacaccg attcaagctc ataatatatc gagactctcg 120  
 aaattgaaca acgaaagctc tcgagaaatt caaatggtga aaacttttca gacgaaagtc 180  
 ggattcagac gcataatata tcgagaagct tgaaattgat caacggaagc tctcgagaaa 240  
 ttcaaattgt cataacttgt cacacggaag tccgattcag gcgcataata tatagagacg 300  
 ctggaaattg aacaacgaaa gctctcgaca aattcaaattg gtcataacta ttcacacgga 360  
 agtctgattc aggcgcatac tatatcgaga ctc 393

<210> 203  
 <211> 406  
 <212> DNA  
 <213> Glycine max  
 <400> 203

ggctgcagct tctcgatata ttatgcgcca gaatcggacc tcagtgtgat aagttatgac 60  
 cattttgaat ttccgagagc ttccattggt caatttcaag cttctcgata aattatacgt 120  
 ctgaatcgga ctttcgtgtg ataagttatg accatttgaa ttctctgaga gcttccattg 180  
 ttcaatttca aacttctcga tatattatac gtctgaatcg gactttcgtg tgataagtta 240  
 tgaccatttg aatttctcga gagcatccat tgtttaattt caagcttccc gatataattat 300

gcacatgcat cagactactg tgtgaaatgt tatgaccatt ttaatttctc gagagcttcc 360  
gttggttcaat ttcgagcgtc tcgatatatt atgcgcctga atcgga 406

<210> 204  
<211> 328  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 204

tctacttcat aacccttga actacttcac attgatctat ctggccctc tagaacaatg 60  
agtttgggtg gtaattacta tggcttagtt atagtagatg attactcaag gctcatatgg 120  
actttgtttt aacccaaaat gaagcttttg gtggctttta aaaacttgcc aaggtgattc 180  
ataatgaaca aggtctcaac attgtttcac ttagaagtga tcatagaggt gaatntcaaa 240  
atgagtcttt tgaaaactnt tgtggagaaa atggaattca ccataatttn tcttgcccaa 300  
gaacacccca acagaatggg tttgtgga 328

<210> 205  
<211> 455  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 205

agcttctcac atctgactct ctagtccaa cgtgggtgtt tctcttgatg cacttctctc 60  
gatcaccttg accaatggaa tctccttccc tcttaggtgc tttgttcgcc tatctttgat 120  
cctcaaaggc aatgttccat atgtcaagtt cttcttcact tgtacgtcat ccaatttgat 180  
cacacgagat ggatcatgga tatactcacg aagttgagac acatgaaaga caatgtgaag 240  
gttagaaaga gacaggggta atgcaatttg gtatgccac agtaccgact ttttttagaa 300  
tttgaaagg acagataaaa tgaggtatga gttattgnga tttcaatgct cgaccaactc 360  
cagtcacaa agtgactctc aagaatacat gatcactaac ctcgaactcc aagtctttcc 420  
tcttcttgt cctgatagct ttctacctac tctga 455

<210> 206  
<211> 422

<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 206

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tcacacttga taatggagaa cacatgatca gcgctaggca atgacattca tgggtactccg 60
aacaaagggtg gagtatggag gattgccttg aggggtccgca cttangcaat catgaaactc 120
agctccaaac tcgaaagtgg aggacacatg aacagcccta agcaataaca ttcattgtggc 180
tccagaaaag gatgagaatg gaggattgcc ttgagggtcc tctcttange aatcatgaaa 240
cacaactcca aactcaaaag cggaggacac atgaacagcc ctaagcaata acattcatgt 300
gyctccggan aaggacaaga atggaggaat gccttgaggg tcttctctta agcaatcatg 360
gaacacagct ccagactcga aaatggagga cacatgaaca gccctaaagc ataacattca 420
tg 422
```

<210> 207  
<211> 397  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 207

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ngtanggtta aagtctcacg atagtcacgt gctcatgcaa cagttgttag ccatggctat 60
acgagacatc ttgccaaaca aagtcagggt agcgataact cacctgtgct ttttcttcca 120
tgctatatgt agcaaagtca ttgatcctgt caagtttgat gagttggaaa atgaggccgc 180
aattatacta tgccagttgg agatgtatct tccccctgct ttctttgaca tcatgattca 240
cttgattgtg catctgggtc gagaaatcaa atgttggtgt cctgtttatc tatgggtggat 300
gtacccgatt gagcgataaa ttgcanaaga agccattgaa tttttttcag aatacttaga 360
gaatngctaa acctgtggcc ttctgagtct cgcatga 397
```

<210> 208  
<211> 427  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 208

ggtagagtcc ctntgtgtct ctagcttcac acacatgtag nggaacatct atgnaaacct 60  
 gcaacgtgta agcattgcgt tagctataat ttatgaagaa ccacttctag ttctataatt 120  
 gtacaacata ttagcatatg ccaaactatg tgtatcattt ggatcaccaa aataagaata 180  
 ttacctcaat aaaatctcct tttggcatta gtgctctgca tgcctctcta ntcttttgg 240  
 atggtgatat taaactagtg atgcaaataa caccagcctc tgcaaagagt ttagccacct 300  
 cacctganaa ttntatatcg tgatgtctaa ttattaataa aacaataaaa tataatcgga 360  
 agatatcagg gaaagcattt agaaagcaac ataagaaaaa acagataaac tcaccaatcc 420  
 ttctaatt 427

<210> 209  
 <211> 422  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 209

agcttgtaac ttatataata tatacatctt attgtaatta tattttaaca catcagaatg 60  
 gtgcgcccac aaccacagg tcccaggatc gaaacctggt tctgataaag agtggcttcc 120  
 gatctatcac atatatatat attttatgcg taaaacatat atcattacgc aatgacattt 180  
 gagtataata aaaaatagtt ctgcagggcc taacatttca gtgcttatat taatttagtt 240  
 accatttaaa ttttattatt gagtcaactt tttacgtat attcatattt tctctttgg 300  
 aattntattt taatttgctt aagtaaacad attttttatg gataataatg gcttccagtt 360  
 tcttagtgaa ccacatctga aaaattatac ttgaacaaga agatgtgttc actatgtcat 420  
 ag 422

<210> 210  
 <211> 357  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 210

tagatactca agccatttca aatgaaagga attcataatt aaaaagttga gaagggttca 60  
 cngaagagaa tntcaaaatg actctgaatt gttttgtgaa caaaatggca ttaatcgtaa 120

cttttccgct ccaagaacac cacaacaaaa tgggattgtg gggaggaaaa aaaagtcctt 180  
 tgaggaactt gttagtgttt agctctactg agctntaaaa gattggctaa gatcttgtta 240  
 aaacataagc acttagacaa tgaatgaaag ctggagttgc tgcacatgat gtccaacgct 300  
 atgtcaagga ataagatncc gctgcacaat gcacaaggca agataaaatg tcaaatg 357

<210> 211  
 <211> 384  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 211

agcttgtctt ctctagcctc tnttgnctt ttctacattt ccttagtgac aagtcctctg 60  
 cctagaagtt tcttgtcttg acctggttgt tgtgtcttct tcatctgcc a tgcacttcca 120  
 tgtttaattt cgagtgtctc ggtatattat gcgcctaaat tggacatccg agtaaaaagt 180  
 tatggccatt tgagtttgcc tagaactttt gtgttcaatt ntgagcatct tgatatatta 240  
 ttggcctgaa tcggatatcc aagtcaaaaag taatggccat ttgaattttc cttctgcttc 300  
 catatataat tntgagcgtc tcgatatgct atgcacccga atcggatatt cgagtgaaaa 360  
 gttatgacca tttgaatttc ttga 384

<210> 212  
 <211> 344  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 212

tctgggtgga catcttgact tgctntccaa tctgacattc accacanatt ctgccttctt 60  
 ctattttcag aatgagaatg cctctaacia cacctttgtc aatgattttc ttcattgctc 120  
 ttaagtgcag atgtccaaat ctttgatgcc atattctgac ttcattcttct ttggaggata 180  
 gacatgtgga ggagtaactg gtttcttgag gtgtccatag gtagcagttg tcctttgatc 240  
 tgctgccctt cattagaact tcaactcttct catttgtcac caagcattct gactttgtga 300  
 agtttacatt gaatccttca tcacacagct gactgatgct gatc 344

<210> 213

<211> 355  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 213

ttgaattgct ttntggcctt ctgngtctc cctgcctcca attaagactc gatccggggt 60  
 gaaaagatct tggattgcag ttccctcagc aaggaattca cggtttgaaa ggatttggaa 120  
 cttgattccc tttccattgt gagtcaaaat cttctctatg gcctcagcag ttttcacagg 180  
 gacagtggat ttctccacca caatcttgtc actcttgnag acatcagcaa tcatgcgtgc 240  
 tgcactcttc cagtaagtca aatctgcaac cttgtcggct tcaagaccac gagttnttgn 300  
 cggcgtgtng acggagacga acactatgtc agcctcatag acatgtttct caaca 355

<210> 214  
 <211> 311  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 214

tctgttggtc aatttcgagc gtctggatat attatgttcc atattcanac atccgagtga 60  
 aaagttatga ccattagaat ttctcgagag cttccgttgt tcaatttcaa gagtctagat 120  
 gagttatgta cgcgaatcga acatctgtgt gaaaagttat gaccattcaa atatcttgag 180  
 tgcttccgtt gtgcaatttc gagcatcttg atatattatg tcccacattt ggacattcgt 240  
 gtgaaaagggt atgaccattc gaatttctcg agagcttcca ttgtttaatt tcgagagtct 300  
 agatgagtta t 311

<210> 215  
 <211> 415  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 215

gtatatgaca tgtcccactt gtactttntt tttttatcta atttgcattc cacaaaatta 60  
 gaatctctgg atcttgattc atccactgat ttaccttctt catttaagtc aaggtagggt 120  
 gatgtagcca taagaatgga cgcttctttg cattnttcca taccaaattt ttttattagt 180

tctatgcagt atttattttg accgaggaag gttccatggt tcattttctt gacttggagt 240  
 cctagaaaga aatttaattc tcccatcata gatgtctcaa attctttttt gcatacaaca 300  
 tgaaaatecc ttgcataagg tttcattagt atagccaaat ataatatcat caacatatat 360  
 ntgaacaatt aacaaatcat tgtttacttt cataatntaa caaagtttgt caact 415

<210> 216  
 <211> 305  
 <212> DNA  
 <213> Glycine max

<400> 216  
 tatagatact cagcctcatt ggagcttgag gcctaggatc ttcttatcaa tggattctct 60  
 tgcttcttgg aagatgaatg gaagcggaat ggagaaaggg agagagagag gagacgccac 120  
 ttcaaagaga agatgagtct agaagaagct caccaccata ggaggccatg gataagagct 180  
 tggaggaaga aggagatgaa tgaagggaga gggagagaag agcacgaaca tttgtgctct 240  
 acatgagctt tgagatctga agtttaatat tcaaataatc aaagttgaaa aaaatgcaca 300  
 cacat 305

<210> 217  
 <211> 396  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 217

ntatcanatg gatgtaaaga gttcattctt atatggctnt attcaagagg aagtatatgt 60  
 agatcaacct cctagatttg agaattcaga caagcctaatt catgttttta aattaaanaa 120  
 aaggctttat atggcttaaa gcaagcccct agagcttggg atgagcgtct gagtaagtgc 180  
 cttttagaaa aggatttctc tagaggcaag gtagatacta cctttttcat aaatagaaaa 240  
 tcacatgaca ttntactggg tcaaatttat gttgatgata ttcatttttag atctactaat 300  
 gaattattat gcaaggaatt ctctcatgac atgcaaagtg agtttgaatt gtcaatgatg 360  
 ggagaactct aattgtttct tggatacaaa ttaaac 396

<210> 218

<211> 325  
 <212> DNA  
 <213> Glycine max

<400> 218

agtggtttctt ttgcaagaag aagggacaca tgaaaaagaa ttgccccggg ttccacaaat 60  
 ggcttgagaa gaaagggtgaa tcaatctcat tagtatgtta tgaatcta atgggtagtg 120  
 gtaatattaa cacctgggtg attgattctg gatctactat tcatattgca aattctttac 130  
 aggggtatgca aaacctaaagg aaaccagtgg gaagtgaagca aagcatttta tcaggcaata 240  
 agctaggctc acatgtggag gccattggaa cttgcatttt gactttaagt agtggcttta 300  
 ttttaaaatt agaaaggact tttta 325

<210> 219  
 <211> 289  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 219

gcttatcttt ggttntacaa ccaaagtcca tgtgaacctt gagtaatcat ctactataac 60  
 taagccatag taatttccac ctaaactcag ttctagaggg accaaataaa tcaatgtgaa 120  
 aaagttcaag gggttttgaa gtagaaacaa catttttact ttgaaaggag tttttaactt 180  
 gctttccttt nttacaagct tcacacaatt tatttttctc aaacttaagt tntggaagac 240  
 caattactaa gtcttttcta actagatgat taagatgat catatttat 289

<210> 220  
 <211> 460  
 <212> DNA  
 <213> Glycine max

<400> 220

aagcacctga gctgcagcta tgctgctata ttacaataga ccttctttac ctgagcagca 60  
 aatcaacca caacagcaca attatgacct cttcagcaac agatacaacc ctggatggag 120  
 gaatcacct aatctcagat ggtctagccc tcagcaacaa caacagtagc ctgctccttc 180  
 cttccaaaat gttgctagcc caagcaaacc atacattcct ccaccaatcc aacaacagca 240  
 acagccccag aaacagccaa cagttgagac cctccacaa ccttccttca gaagaacttg 300



tgaggcaaat gactatgcag aacatgcagt gtcaacaaga gaccagagcc ttcattcaga 360  
 gettaaccaa tcagatggga caattggcta cacaattgaa tcaacaacag tgccaaaatt 420  
 ctgacaagct gccttcttaa gctgtccaaa atccccaaaa 460

<210> 221  
 <211> 449  
 <212> DNA  
 <213> Glycine max

<400> 221

agcttgtcat ggtatatata tgtttcctaa tagtctactc tgtgttatat aatacttagt 60  
 taaatatatt gtgtatacta aaagcaaatg cttaacatta tacgtctttc gtactcaagg 120  
 atataccaac attgaagggc ggactgtctt gatgtagcga ttttaacagc gatgacacta 180  
 tctttgttct atatattaac tgtcatggag atggagctgt ctttgtaaac aatctttgtc 240  
 attatcagct gaaagatgaa catgttggtc gataggaaaa taatgaaata ccttatataa 300  
 atgtattgta aagttttaag aataaactgc tcaaattgcc agcagtttgt cgtagaatag 360  
 tagtgcaaat tcatgatgta aatgtattag aatacagaat aaacctatgg tgccgttatt 420  
 aattgttatg agaacatctt gggctcttgc 449

<210> 222  
 <211> 447  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 222

tgtaggcctt gaatcttctt catcaatgga gtcctttgct tcttgaagat aaattggaag 60  
 cggaatggag aaggaggaaa ggtgattaga gatgccactt caaggagaag atgagtcaag 120  
 aacaagttca cgcctatg aagatatgga tataagagct taaaggtacg agaagatgag 180  
 tggagggaga gggagagaaa gggcacgaca tttatgcctc agatgaggta tgaaatgtga 240  
 agtghtaatt ctcanatgat caaagttaaa aatatgcaca cacaaggcct ctatttatag 300  
 ttttaagtgtc atacaaaatt ggaggaaaat ctgaatttct attcaaattt cacttgaatt 360  
 tgaatttgtg gagccaaatt tggagccaaa atttcactaa ttaggattgc atcatccctt 420

ccnctctgaa aatgaattga cctcaaa

447

<210> 223  
<211> 440  
<212> DNA  
<213> Glycine max

<400> 223

tcatcaagga tcttgttgaa atcatccaat tgttcagtgg ttgtttttta ctctgtcatc 60  
ttgaagggtgt acagtttttg cttcaagcat agccaatttg caagggactt tgtcatatac 120  
aatgactcca gtttcaacca cattgaggtt gttgtctttt ctcttgcaac ttctcttaaa 180  
gctttatctc caaagcatag aatgattgca ctgctggctc tatcaatcat ctctgatttc 240  
tcctttgagc ttagagattc agacatcctt tcttctcctt taagagcttc tgcacagcca 300  
tggtgaatca agattgcttc catcttgact ctccataacc cgaagtcatt gtccccgaa 360  
aacttctcaa tategtatta tgatgatccc atctttcttg gtcttgatct tgtccccata 420  
gacggcgcca cttgttgatt 440

<210> 224  
<211> 407  
<212> DNA  
<213> Glycine max

<400> 224

cgcattgataa atactgggac agtctcaaac cctgatgtat cagtttcaga tccgtggagc 60  
caatgcgagcag tgggacaagt agagtcgcta aaatcattgg tcagactcct acctatgtgt 120  
gcctcggggcg tcttgatgat ggcgtcccaa ggctcattct ctaccctgca agcaactacc 180  
ttggaccgaa agctatttgg caatttcaag atgcctgcag ggtccttcaa tcttatcatg 240  
atattgacct tatcaataga cattcccttg tatgaccgca taatgggtacc tctactagcc 300  
aaatacaggg gcttgccgaa tggattctgt agtaaaactc caattgggat tggattgctg 360  
tttgtatgcy cagctaaagg aacatcagct gtagttgaaa ctattag 407

<210> 225  
<211> 410  
<212> DNA  
<213> Glycine max

<400> 225

ctatatatttc agtagatgaa tatgaatccg cggccacctc atgtactcct ctaaggacaa 60  
tagcatcatt tgttgcactg aattgttagg agttggaagc catcttctca atcaaactcc 120  
tagcctcagc acgggtcata tcaccaagag cccccccact agcagcatta atcatactcc 180  
tctccatggt gctaagtccc tcatagaaat attgaggaag gagttgctca gaaatctggc 240  
ggtagaggga gcttgcacac aatttcttga atctttacca gtactcatac gagctctctc 300  
cactaagatg cctaattgct gaaatgtctt ttctgatggc agtggtccta catgcaagga 360  
ataatttctg caagaacact cttaacgtcg tccaagctga aaatggacct 410

<210> 226

<211> 442

<212> DNA

<213> Glycine max

<400> 226

agcatttaca atgattaaga tatactcttt caagtttttt ggccataaat tagtctggga 60  
tctcaatcaa gtctcgagac tcttgaaggt caatggctct taaactcacg aggttctgta 120  
aaaaaaataa aaatacatca cattgaccat aaatcattaa aataaaattc ttagtataca 180  
ttgaagctca tcatcctagg tgtggctctt gtgattgtga atgagtttca ttcgagtaag 240  
caaaagacta gttaccactt tgtcttacga ttctctaccc tacctttgca aatagaaaga 300  
aaaatgtagt atgtatatcc acaatcatac ctgaacccca tcccagagct ttttgagctt 360  
gctacgaggc atggaaatct ctacaagtcg ttcagcgcag aagttatacg gcaaagactc 420  
aagacaacat tcatgccaat ga 442

<210> 227

<211> 384

<212> DNA

<213> Glycine max

<400> 227

tggatctgac tgccttgctt tatgtgatat acataattgg gtataaagac gactagggcg 60  
cagtaactga cgtttgcttt tatatccaaa ttgtataacc tgtgataaat catttaaagc 120  
cattggctct ttattattca ttatatgac aattctttta ccacttctag attgtgagta 180

tcaatgatta ttcatgatca caaagcatat gccaaactca gatgatagta tatcaaatta 240  
 ctatacttct gatcatgagg gcgagccctg gtgcatcggt aaagatgtgc ctcggtgact 300  
 tgttggtcat gggttcaa at ccagaaacag cctctttgca tatgcatggg taatgctgcg 360  
 tacaacatcc ctaccccata cctt 384

<210> 228  
 <211> 436  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 228

taagctcctt caactgcaca atgctcttaa tatttgaaga gtgtccttgt ggaaccttca 60  
 cccgacgaag aactgacaa aaacttatct tctccttctt ggacaaagta tggcgggctg 120  
 ggggtaagta aattatcttc ccatcagacc ttggatgcaa atgtgattgt ataccatata 180  
 cagctaaatc ttgacaggta ttcaagccat ccttcattct gccttgaatg ttcatgagcg 240  
 ttccaaccac actgatacaa acatttttct ccacatgcat aacatcaata caatgtctaa 300  
 cgtcaagatt acacctgttc ggaagatcaa agataatgga ccttttcttg catatgcaac 360  
 tctgactttt atccttcttt tgagtacttc caaatgcagt atntaagtga tgaacccgct 420  
 gatatacctg ctcacc 436

<210> 229  
 <211> 432  
 <212> DNA  
 <213> Glycine max  
 <400> 229

agcttatgag catgaggggt agccttttct tgactataaa aataacgttg tttagttccc 60  
 ttgcttactc ccataatacc aggagccttg tgcataatgc tttttataca taagctaagt 120  
 agtttctgtt gtaacaaaag tgtttgact acactatttg tcactacatt cgcggtacgg 180  
 gctaaggctg attcatttat gcagggtgtc attgggtcaag ctgctgtgca cagggtgaat 240  
 gcaactgtca acttccttga tgaacaaga ccttcataat ctgcaactgt aaataatggt 300  
 gacttgacac agctatctgt tgatgtagct ggcaatttgc ttggcaccaa taatgttaat 360  
 attgacaaga cacctatcat ggccgctgaa gactatgcat tctatcaaga ggtcatacct 420

ggctacttca tc

432

<210> 230  
<211> 428  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 230

ntccactcct ttggaagatc attatttgct tgagtttcat agtccttgaga atcctcattg 60  
ctttcatctc ttttcctttt agaatccctt tcatgattat gtatctcttc taagaaatct 120  
gaaacatcat ctaacacatt ctttcttgga gaaataacal lagactcatc aaaggaaaca 180  
tgaatggatt cttcaatatt catagttctc ttattgtata ttctatatgc ttactatgc 240  
aaggaataac caaggaagat tccttcattt gccttggcat caaactttcc taagttttct 300  
tttccattat ttaatacaaa acatttgcaa ccaaagacat gttaaagtga aatgtttggc 360  
tttctaccat tgaataattc gtaagggagt ttctttaaga tgggtcttat taaagcetta 420  
ttaaagat 428

<210> 231  
<211> 422  
<212> DNA  
<213> Glycine max  
  
<400> 231

agcttcaaca ttcaatgtca agcgtctcga tatattacgg gactcaatca tacatccgag 60  
taaatagtta ttgtcgtttg aattggctca gagcttcaac attcaatttc gagggctctg 120  
atatattacg ggactcaatc cgacatccga gaaaaaatt attgtcgttt gaattggctc 180  
agaggttcaa cattcaatta tgagcgtctc gatatgttac gggactcaat cagacatccg 240  
agtaaaaagc tattgtcatt cgaattggct cagagattca acattcaatt tcgagggctc 300  
cgatatatta cgggactcaa tcagacatcc gagtaaatag ttattgtcgt ttgaactggc 360  
tcagagggtc aacattcaat ttcgagcgtc tcgttatatt acgggactca atcagacatc 420  
cg 422

<210> 232

<211> 429  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 232

tcaagaatcn gatntcacag aatcaagatt caagaatgat cttttttcaa gattcaatca 60  
 agcttcatga atcaagattc aagagcaatc aagatcaaga ttcaggaatc aagaaaagac 120  
 tcaatcaaga taagtactaa aagtttttcg taacattgag tggcacaaga atttttcaca 180  
 aaatctttaa cgagagagtt ctactttctg gtaatcgatt accgagagcc aacattgggtt 240  
 ttcaaaactg atttaciaag cttgtaatcg attaccatga gcatgtaatc gattaccaat 300  
 attgtaaaat gttagatttc aaatctcaag agtcacaact agtgataaaa cattgtcaaa 360  
 tcattgtaaa cttgtctaata cgattacaca atacttgtaa tcgattacca gagtttctaa 420  
 acggtttga 429

<210> 233  
 <211> 469  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 233

ctaagctctg ctgcaatatt acaatagacc tcctcaacct cagcagctaa atcaaccacg 60  
 gtagagcaat tatgacctct ccagcaacag atacaacctt ggatggagga atcacccctaa 120  
 cctcagatgg tccagccctc agcaacaaca gcagcagcct gctccttctt tccaaaatgc 180  
 tactggccca agcagaccat acattccttc accaatctca caacagcaac aacctcagaa 240  
 acaaccaaca gttgaggccc ctccataacc ttccctcgaa gaacttgtga ggcaaatgac 300  
 tatgcagaac atgcagtttc agcaagagac cagagcctcc attcagagct taaccaatca 360  
 gatgggacaa tnggctaccc aattgaatca acaacagtcc cagaattctg aatagctggc 420  
 cttctcaagc tgtccaaaat cccaaatatg tcagtgccat atcattgag 469

<210> 234  
 <211> 414  
 <212> DNA  
 <213> Glycine max

<223>      unsure at all n locations  
 <400>      234

ttctacaatc tcgagccttc anataaccct cctcaccttc ttccgcatca ttatcatcag      60  
 tatgaggacg aatattacat tcttctctat gccaaatttc agattgatct atccggtttt      120  
 cctcattggg ctccacctca atgctatect tttctgagct agcatggacc accttatctt      180  
 ctgcacgtgc ctttgtctta taaaccattt cagactcatt aaaaataaca tcatgactta      240  
 taatgcatct ttttgtctct ggctctaaac accacaatct gtaccctta aaacctgag      300  
 gatatcctat aaacatacac ttgatagctc taggttccaa tgtgtcttgc cttatgtgag      360  
 cataagcaac acatccaaac accctacgtc tatcattatt tggaggatgc cctg      414

<210>      235  
 <211>      425  
 <212>      DNA  
 <213>      Glycine max

<400>      235

atactgcatt gttgactaat tgttgtgtt gttatttaca tctattttca gactcccaat      60  
 ttgcagattg agttttgggg ctgctttctt gctgaacaat gtttgttgga ctatgattgt      120  
 ataatactct tgtcttctat cgcggctgcg tctgttatat ttcttttcaa acctattctg      180  
 gctctgaatg catacttaag gaaatattat gttatggata atgatataca catctcttta      240  
 atggaacgat attaccctg tttcaacgca tgtgttctca tgtgatgaat tgatgattaa      300  
 ctgttcgcca atataataaa attattgctc tttactctaa tatatatagg taacgactta      360  
 atgttgaaga ttagagaagg tgtatccctt ctactccatc accattaact atcagctacc      420  
 ttctt      425

<210>      236  
 <211>      438  
 <212>      DNA  
 <213>      Glycine max

<223>      unsure at all n locations  
 <400>      236

agctcgtagc ctattcgaac aacaataact nttcactcgg aagtctgatt gagtcctgta      60  
 atatatcttg acgctcgaat agtaagaccg aagctcgtag cagattcgaa cgacaataac      120

atgtcactcg gaagtcctat tgagtcccg aatataatcg gagctcgaa ttttaaaacc 180  
gaagctcgta gcaaattcga acgacaataa catttcaactc ggaagtecta ttgagtcccg 240  
taatatatcg agagctcgga attttaaaac cgaagctctg agcatattcg aacgacaata 300  
acatttcaact cggaagtccg attgagtccc gtaatatatc gagagctcg aaatttaaaa 360  
ccgaagctcg tagctaattc gaacgacaat aacatttcac tcggaagtgt gagtgagtcc 420  
cgtaatatat cgagacgc 438

<210> 237  
<211> 392  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 237

gcattacatt attactcatg cttetaacca tgtctaatat tgttngattt ctgcgttctg 60  
ccacaccatt ttgatctgga gaaccaagca tcttgtattg tgcaacactc ccatgttctt 120  
gaagaaactt cgcaaatgaa cctgggtgctt gtccatcctc tgtgtatcta ccataggact 180  
ccccaccttt atgtgatctc acgatcttaa tatgttttcc acattgtgtc acatctgcat 240  
ccttaaaaaac tttaaaggca tctaaagctt cattcttaga atgaagtaag taaagacaca 300  
tatatcgtga ataatcgttt ataaaggata tgaatactct ctgactagtg gcattcatgt 360  
ctgggcaaag tatgtctgta tgtatgattt ct 392

<210> 238  
<211> 424  
<212> DNA  
<213> Glycine max  
<400> 238

agctttaaaa gtaccattt accaacctca tagtctactt cacgccattt agtatcatca 60  
gtgcgtttca tcgtagcttg cgcttctaat agcttctgac gaatgcaaag aaaaacttcc 120  
tcacagtgtc tcagagtatc atccaccgca tctagtttgg aggagctagt gatatagtct 180  
ggaaaagaga aaggtttccg cccaaacgtt atctcatcgc gcgtagagcc cgtgcctgcg 240  
ttccatgaag tattatgcga taattcgacc cagggaagga atctgcccc agtccccgac 300  
cggcggtgca ccatagcccg caaatattgc tctattactc tgttcatgac ttcactctga 360



ccatcactct gtggatggta ggctgaactc attctaagcc ttgtaccact caattaataaa 420  
agct 424

<210> 239  
<211> 376  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 239

taagtcacct gcggcatgca agcttctaaa ctttatacaa gaatgaagct ctgataccac 60  
ttcttggaca agttgcctca gatatcttaa gaaggggggg ttgaattaag atatcacaga 120  
ctattcccca attaaaaatt ctacttttaa tttaatccaa caacccaaga ttctttttaa 180  
acaagaactc ctagataata atgcaaatta atcttactaa atagaaataa taagcaataa 240  
acaataaagg agtctaaggg aagagaaaat gcaaactcag atntatactg gttcggccac 300  
acccttgtgc ctacgtccag tccccaagca acccgctaga gaggttcact atcttgcaaa 360  
atccctttac aagttc 376

<210> 240  
<211> 441  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 240

ccaacgctct gatcaagctc tcccataatc tanangtaaa tctacgatct ctatcagata 60  
ctatgctaga ttgcacacca tgtaacctga caacctcact tatatacgag gaggtcaact 120  
tttccatgga aaatctgata ttaatgggaa tgaattgagc aaacttattc aatctatcaa 180  
caataaccca tatagaatct aaacctctaa gggttctatg tagtcctacc acaaaattca 240  
tggaatgct gtcccacttc cactatggta tctctaaagg ttgcaactta cctgaaggtc 300  
tctgatgta tatcttatcc ttctgacaga ctangcatgc atacacaaac tactaacct 360  
ctctctttat gtatagccac caaaacatcg tctttaaatc atgatacatc tgtggagcac 420  
catcatcaat gctcaaatta c 441

<210> 241  
 <211> 471  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 241

tgtaacaata ttntattgaa agtgagagta ttaatagaag ataaaaagtt atcgattata 60  
 aatttataga taaaattgaa aaacaactat gtagcttcta atttataagt tatatgacat 120  
 attttaagtt agtagcatta gcatgtggtt gtaggttttt aaaatatgtt aaaattccat 180  
 tttagtctca caaattttaa atatcttggt ctggtctatt gtttctagaa ataatatagc 240  
 taacaaaaaa aatactttta aataatcata ttttagtttt laattaatta tgaactctta 300  
 taatttttta aaaaataaat tttattaaaa tataaataaa ttatgtaaat aatggaataa 360  
 ttaaaatgaa cagtataata ttaaaattat ttctaaataa aaatagtatt atattatagg 420  
 agacaatata ttagagttct taataagtac tttagtcata taatctatcc a 471

<210> 242  
 <211> 451  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 242

agcttcacac aatnntatnt tttttatcaa acttgagttt tggaaaacca attactaaga 60  
 ctttcttaac tagatgattt aaatgatgca tgtaaatatg tgcagcccta tgatgccaca 120  
 atcatgaatc atctatctta ctcaccaagc aacttagctc atgaaaagat acatgttcaa 180  
 cattcaacat atagatatta cctattctct tactgatctg gacaacttta ccggatatgg 240  
 cttcacttat aagacatcaa tttctattga actctatttt gaacccttta tcacaaagtt 300  
 gactaatgct tagaagttat gcttttagtcc atccacatat aacacattct taatctgagt 360  
 tntatgttga ttccctatat catgagaaat catatttttc cttttgtggt nngtctcaac 420  
 atgaccatag tttgacttg tcacacgtca t 451

<210> 243  
 <211> 379  
 <212> DNA  
 <213> Glycine max

<400> 243

agtcgaactga cgctgccgct tcattgttca atttgagcgt ctagatatat catgcgcctg 60  
aatctgacat tccagcgaga aggatgacca tttctattac tcgagagctc ttgtgggttca 120  
atttccaccg tctccttgag ggaggtgctt gacctccacg tccgagtga aaaggatgac 180  
cattcttatt tttcgagagc ttccgttggt ttatttccag cggctctata tccgatgcgc 240  
ctgaattgga catccgagtg aaaatttata atcattaaga tttctcgaga gcttccgcac 300  
tttcaattcg agcgtctcga tatattatgc acctgaatcg gacactcgag tgataaatta 360  
tgaccatttt aatttctct 379

<210> 244

<211> 313

<212> DNA

<213> Glycine max

<400> 244

tattcaacaa tgacaaatca cataacataa ttttaagatt ctgagcctca ctagtagcag 60  
tatctaaagc aataatttct gcttccatgg tagaatgtga aataatagtt tgttcagcag 120  
atttccatga tattacacca ccagctaaag taaagacata atcacttgct gattatgttt 180  
catcagaatc aaaaatccaa tttgcatcac taaaccctc aattacttcc taatctacca 240  
actacatatg ctatgacatg cctatagaga gttgtcaatt gcatcaaaga accactaatt 300  
tgataatatt gtg 313

<210> 245

<211> 471

<212> DNA

<213> Glycine max

<400> 245

ggaaattaaa caatggaagc actcgagata ttcaaattgt cataacttat cacacggagg 60  
tctgattcat ggcataata tatcgagacg ctcgaaattg aacaacgaat gctctcgaga 120  
aattcaattg gtcataactt gtcacacgga agtccaattc tggcgcatca catatcgaga 180  
cgctgtaaat tgaacaccgg aagctctcga gaaattcata tggtcataac ttatcacaca 240  
gagggtttgat ttaggcgcac aatatatcga gacgctcgaa attgaacaac gaatgctctc 300

gagaaattca aatggtcata acttatcaca cggaggcttg attcaggcgc ataatatatc 360  
gagacgctcg aaattgaaca acgaatgctc tcgagaaatt caaatggtea taacttgtca 420  
cacggatgct caattctagc gcatcacata tcgagacgct gtaattgaac a 471

<210> 246  
<211> 410  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 246

agctntagct tccaactcaa caggtaggtg acaagaattg ccatagacca attygaaagg 60  
agtaagtctt gtaggagcta tgtatgttgt tctgcatgcc cacaagctt catctagctt 120  
ttgggaccaa tccttccttg attgagcaac tgttttttct aatattttct taactttcct 180  
attagaaact tcagcttgcc catgtggtaa ggcgaagcta ccttgggttt gacactgtag 240  
tgttggagga ctttgggtgag ttatacatta caaaaatgag atcctcogtc acttattagt 300  
accctgggtg tgccaaacct tgagaagata ttattttctta ggaagcaa atacaattttt 360  
gcatttgcac gntgtaccac tactgattca acccattttc ttacatagtc 410

<210> 247  
<211> 359  
<212> DNA  
<213> Glycine max

<400> 247

tcggacatcc gtgtgaaaag ttacgaccgt aaggatatgt ccagagctat catagttgaa 60  
tttcgagcgt ctagacatag tatgcgcccg aatcggacat ccgtgtgaaa agttatgacg 120  
atatgaatat ctcaagagct ttcatgggtg agtttcgagt gtatcgatat attataatac 180  
ctgaatcgga cctccgtgtg aaaagttatg actatatgca tttatcgaga gtttccgatg 240  
tatagtttcg agcgtatcga tatattataa gcctgaatcg gacatccgtg tgaaaagtta 300  
tgaccattag aattttctcag gagctttcgt tgtgcagttt cgagcgtctc gatatatga 359

<210> 248  
<211> 424  
<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 248

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tagatagatc aacgtanggt tctttttcct tcaaccttca ttctacatnt tttccttaaa 60
caaagacatg catgatttta ctattgtatt tcttctccat ctcttccatt gaaaagtgca 120
ttttttgtac tattttatnt ttctttcttc cattgtatat atatataat atatacctat 180
tgattttctta ttgcagtcac gatttgagtt tttagagcaa actctttgag tcgatgggtgc 240
tactatcttc gaaaatcctt ctatgaatct tcgatagtat ccaaccaatc caacaaaatg 300
tgtaatctct atagctatct tatgggcgtt tcaactgcaa attgtgtcta ccttgggaagg 360
atccactaca ttgctacca ccaagatcac atgacctaag atccgtacct catcaagtca 420
aaac 424
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<210> 249

<211> 376

<212> DNA

<213> Glycine max

<400> 249

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gcaactagga tgttcggaag tatcaaagta atctgggaat ggaacattgg aaagctataa 60
agaaagttat gagatactta caaggaacaa aagatcacat gcttacatat aggaggtcta 120
atcatcttaa ggtgattggg tattcagact catactttgt tggatgtgtg gttatgagaa 180
aattcactct tggctatgta tttcttttag tcggaggagt aatatcatgg aagagtgcaa 240
agcaaccagt tgttgttgtt gcactacca tggaagtaga atttgcagca tgttttgagg 300
ctacaagtta agctaattga ctgcgaaact ttatctcagg gctctgaatt gacttacgac 360
tgctaggcat tgaaat 376
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<210> 250

<211> 298

<212> DNA

<213> Glycine max

<400> 250

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atctcttttc gaaacttcta gatgatattt accctttact gatgctaaaa atagcggcga 60
ggaacgtcga gaagcagatc ccgtcggagc cgtactgggc attcttgatt ctgtacacat 120
```

cagtgcact agaataatat cgtctctgcc gatctgtctg ttcgctgctg tatatgtttg 180  
 ctagtcaagg gatattttca ttagaatcaa aatgtgtctt cagcggtata acaggagaga 240  
 cgacaaatgg atttggacag gacaacagag gcttgtgtga gagaaacggt agaacctt 298

<210> 251  
 <211> 132  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 251

tcacanaagl ttgtatggct tgaacaagc accgaggcag tggtaacaaga agtttaatga 60  
 gtttatgagc aactcaggat tcaaaagatg tgacatgcac cattgctgct atgttaaaaa 120  
 atatactacc ac 132

<210> 252  
 <211> 470  
 <212> DNA  
 <213> Glycine max

<400> 252

tgacactata aaactaagct tccatagggt attccaagat catgatgaag accaagtcaa 60  
 cttgtgtctc atgacaaaat ctcatgagaa caacaaagaa gaatctgtaa ggaagaagtg 120  
 gtacatcgac agtggatggt ccaagcatat gacaggagat gtatccaaat ttacaaccat 180  
 ttctcctaag aaaagtggac acgttacata tggcgacaac aacaaaggca aaattattgg 240  
 agtcggtaaa ataggtacga gttctttctac tctattgaa aatgtttatac ttgtacaagg 300  
 tttgaagcat agcctattaa gtgttagtca attatgtgat aaaggatata aagtatcttt 360  
 tgattctgaa aaatgtgtta ttaagaatga gcatgataaa gatatcgaac atatatgggt 420  
 cagagaatat aatgtctaca tgattgattt ataacaacaa cctgatatga 470

<210> 253  
 <211> 433  
 <212> DNA  
 <213> Glycine max

<400> 253

ctcatctatc tccactatgt tgcctaattgc ctgaaatggt atttctgatg gcagtggtcc 60  
 taaatgtagg gaagaatttc tctaagaaca cccgcttaag gtcaccccag ctgaaaatat 120  
 acctgcgagc aagggaatat agccaatctt ttgcactccc tccagagaat gaggaaaagc 180  
 ctttataaag atatgatctt cttggacggt atggggcttc atggtggaac atacaatatg 240  
 gaactcctta agatgtttat gaggatcttc acctgcaaga ccgtgaaact tacgcagcaa 300  
 ttgtattatt ccagtcctga gaacatatgg aacaccctca ttaggatatt gaatgcacaa 360  
 gctttcataa gtgaaatcag gtgcatccat ctccctaaga gttctttacg aggtggaggt 420  
 tgaccatggt ctt 433

<210> 254  
 <211> 415  
 <212> DNA  
 <213> Glycine max

<400> 254

agcgtctcaa tatattattg gcoctgaatca gacatccgaa tcaaaaagtta tggctgttta 60  
 actatgccat gtgcttccat gttcaatttt gagcatctcg atatattatg cacctgaatc 120  
 gggcatctga gtgaaaagtt atgccatatg agttagccga gagcttcggt gttcgatttc 180  
 gagcgtcatc gacatattat tggcctgaat cggacatccg agtcaaaaagt gatggcagtt 240  
 taaactttac atgtgcttcc atgttttaatt ttgagcatct cgatatatta tgcacctgaa 300  
 tcggacatct gagagaaaag ttatgccata tgagatagct gagagcattc gttgttcatt 360  
 ttcgagcgac tcgatatatt atcggcctga attggacatc cgagtcaaaa gttat 415

<210> 255  
 <211> 450  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 255

gcttataatg tcttacggga aataaccac taacacacac aagggccata agatcaagtt 60  
 aacatgctta aaaaaacttc ctttaattctt tattatatat attaacataa attctttttt 120  
 taatttcaag aaaacatttt cacaatatat aatacatttt ttaaaaaata aatatagagg 180  
 tgttacactg gtgggtggga gcatagggtg aggtggtagt ttatgactan ggtaataatt 240

ctcctacaaa tgagctatac tattggaata tatatttcta caagacgggtt ggaatatggt 300  
agagagatta aatgttacgt tattgctata aggattgggt tgatatcata aaaaattggt 360  
gtagtgaact ttcacgcac agtttaaaga catcacaact aaaactaaca cgagtgttgt 420  
attaatgtct taacatacgt cttaatcaat 450

<210> 256  
<211> 400  
<212> DNA  
<213> Glycine max

<400> 256  
gaagaaattc atatggtcac aactattcac tcggatgtcc gattcaggtg tatcacatat 60  
caagacgctc gaaatttaac aacggaagct ctcgataaat tcaaattgtc ataccttttc 120  
acacggaggt cctatlttatg cgcttaatat atcgagaagc tcgaaattga acaacggaag 180  
ctctcgggaa atcaacatgg tcataactta tgactcagat gtccgattat gcgaatcata 240  
tatcgagaag ctcgaaattg atcaatggaa gctctcgaga attccaatgg tcataacggt 300  
taacatggag gtctgaccat gcgcataata taatgacacg cttgaaattg aacaacggaa 360  
gctcttgaga taaccaaag agcattactt ttcacacgga 400

<210> 257  
<211> 463  
<212> DNA  
<213> Glycine max

<400> 257  
ctgtcttgac ttattttatac ccatacccct caatattata ctataatata tatatgtaca 60  
ctatgatatt gttgagtcta attaataatc aaaatgttat tgtgtattgc ttgatttgct 120  
acatgttatt gatgtgaaat atttatcaac tttagtata agttaatgac taattgctat 180  
tgacagagtt ggctaaccac atctatcagg gtctattccg aactattatt tttcatacac 240  
aagtagtggc aaagtcaaata atttttttta tgggggtgaaa aaatagttat aatattttca 300  
tagatgaaaa ataatatgag ttttattaaa atgggtactaa aggaattaga aatggtaaaa 360  
attaaaaagg gtaagtggat aaaaatagta ccaatttata ttttttctat ttttaactttt 420  
ataacttttt atattcatct tttttttaag aaaattatct tat 463



<210> 258  
 <211> 351  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 258

gcttntctaga cgcctactnt agatacaact agatcagaat gcacccctcca cagcaggaga 60  
 aaatggcatt catcattgaa gatgccaaact ttgtctatag ggatcatgcca ttcagccctaa 120  
 aaaatgcagg cacaacataa caacaactaa tggaccgagt cttcaaaciaa cagataggac 180  
 aaaatgccga ggtatatatg gacgacatga ttgtcaagtc tcaaactata ccccaacatg 240  
 tgggtggacct ggaagaagtt ttctggggaac tacgaaaata cgacatgcgc ctcaaccttg 300  
 aaaaatgcac tcttggggta ggcaaccaca agtccctcac tacagcactg g 351

<210> 259  
 <211> 343  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 259

aagtttgaat atgatgtata agaaaaatgaa tgtgaacctt tctccccctt gaaagacttg 60  
 taataaaaaat gtttttaaaa tacttttaat taatatctga attttttttc cttattagta 120  
 tatatgtgag gggtagaggg tgccacatcc tgcagcaaat aatgtgcaat atcataaccc 180  
 ctaaaactgta tatatcaact ttggcaatta ttggtgcact ttntagccat tcaggtgcca 240  
 tgtaacctat tgttctcttt aaattagtgg ttgttctagt ttggtctttg agtaatagct 300  
 tggaaagcca aaaatctgca atctttgttg tgtgattggc atc 343

<210> 260  
 <211> 473  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 260

tattaactct atacaagagt gaagctctga taccacttgt tagacaattg gcctcaggta 60

tcttaaaaag gggggtagaa ttaagataca caagctgtcc cccaattaaa atttaactgt 120  
 ctctttttatt aacaatgcaa tcctctatta tgaattactc taagaacaat tcaaaaacaa 180  
 acttcttttaa agcaaaatat aaacaataat aaataataga aatttaaggg aagagagact 240  
 acgaactcag tttttatact ggttcgacca cagcctgtgc ctacgtccag tctgcatgca 300  
 acccgcttaa gagttccact atcttgtaaa atacctttta caaagtctga agcacacatg 360  
 aacaaccctt cccttgcggt caaaaacctt acaacttaag agaacatcgg tactttaatc 420  
 aatctctttg agtgagaata agaagaagac ttctctatnt aggagaaaga tat 473

<210> 261  
 <211> 413  
 <212> DNA  
 <213> Glycine max

<400> 261

tatgctgcaa acatttaca tagacctcct caacctcagc agcaaatca atcacagcag 60  
 aacaattatg acctctccag caacagatac aatccccgat ggaggaatca ccctaattctc 120  
 agatgggtcta gccctcaaca acaacaacaa cagcctgtgc ctctcttcca aaatgctgct 180  
 ggcccaagca gaccatacat tcgttcacca atccaacaac agcaacagcc ccagaaacaa 240  
 caaacagtta aggctcctcc gtaaccttcc ctgaagaac ttttgaggca aatgactatg 300  
 caaaacatgc agtttcaaaa agagaccaga gcctccattc agagcttaac taattagatg 360  
 ggacaattgg ctacacagtt aatcaacaa cagtcccaga attctgacaa gct 413

<210> 262  
 <211> 465  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 262

ttcacctgtc tntacataat cagagccatc aacagacttc ataaacatgg taccagcttg 60  
 agagttaata gaaaaattaa tgatgcatct ttgtttccga tcagtccatg catcggacat 120  
 aatagtacaa ccatacttga ccatttgctc cctatggcct ttcacaaat ttttagtata 180  
 ttcaacttcc ttcttcaaga gtggaactct gatgtcatga tagctaggaa tgggcaaatg 240  
 tggcccatat tgaccaatgg ctgcaaccat tttctcaaag cttttcaata taatgaggtt 300

gaatgacaaa cttgcttggt accaaaagcg agcaatatgt taatgcacct ttcaatactt 360  
cattcttata cattgactct cttatgttca ttgacctag catctccatt tttctccgat 420  
tgattgcatt ttctggattc ttacaaaatt atgccattgg tcctt 465

<210> 263  
<211> 450  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 263

agcttcttac atagtccgct nttgcttggt ctttatgctt aanaatagaa acattaygca 60  
tagacaaaag atcaagatga gttagtaggt taaaaccata aacaacttca aaaggagaac 120  
aattagtagt gctatgaaca actctattgt aagcaaactc aacatgtggg aaacaagctt 180  
cccaagtctt taagttcttc ctcaaaactg tcctaagcaa agttcccaat gtcctattaa 240  
caacttctgt ttgcctatca gtttgtgggt gacaagtggg tgaaaataac aatttagtgc 300  
ccaacttgcc ccacaaagtc ctgcaaaaat ggcttaggaa cttagagtcc ctatcactaa 360  
caatgctcct tggcanacca tggagtctca cacntctctt gaaaacaaat cagccacatg 420  
ggaagcatca tcaactcttt tacatggaat 450

<210> 264  
<211> 389  
<212> DNA  
<213> Glycine max  
<400> 264

gcttgagaat ggagaattgc actaagcaat cactacgcat agctccaaac tcgaaggtgg 60  
aggacacatg aacgaaaaca caattcatgg ggctccgaaa aaggggttga gaatggagaa 120  
ttacactaag caatcactac gcatagctcc aaactcgaag gtggaggaca catgaacgat 180  
aacgcaattc atggggctcc gaaaagattg agaatggaga attgcactac gcaatcacta 240  
cgcatagctc caaacgcgaa ggtggaggac acatgaatga acacgcaatt catggcgctc 300  
cgaaaagatt gagaatggag aattgcacta agcaatcact acgcatagct ccaaactcga 360  
aggtggagga cacatgaatg aaaacgcaa 389

<210> 265  
 <211> 435  
 <212> DNA  
 <213> Glycine max

<400> 265

gctggccttg tggtcctgc ttcaattggg gtggctcttg cttcaattgg gtgcttactg 60  
 actggttgct tccctcgctc aagtgtgtgc ctttaccccc ttactcctag taagtgtttt 120  
 taaagtaaata aaaatttata tttttttgtt aataaatatt ataagtttaa gttagctagt 180  
 attaacacat attgtaagtt agtttatata gtattgtgta gttattctaa gctagtatta 240  
 acaaaaatac taagtttaag ttagttagta gtagtattgt gtagttattt tttacgtatt 300  
 aatattaata gatataccaa tggtaggtta gttactatga aaatattatt tggtagttaa 360  
 gaatgaaaat tttatttagt tattgcatga tctaactata tgtgtgatat atctatatat 420  
 atctatatat atata 435

<210> 266  
 <211> 330  
 <212> DNA  
 <213> Glycine max

<400> 266

ggctaaccce tggaagctcc taatatctcc cacactcttt gtgggtgggcc attcttggat 60  
 ggccttgagt ttctcaggt ccacttggac cccatttcta ccaactacaa aacctaagaa 120  
 aactatatta tctacacaaa aggtacactt ctctatatat gcatagaggg tgtttttcct 180  
 aaggactgat agaacttgct tgagatgtcc taagtgaaaa tctaggtctc tactatacac 240  
 taaaatatca tcttaatata caactacaaa tctacctatg agaatcctta tgacatgatg 300  
 cataagcctc atacaggtgc ttggggcatt 330

<210> 267  
 <211> 444  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 267

atgcaatgat tatttaattc aatgtcatat ttcttcataa tataaaagct atataaacat 60

tgcttccttc atcaatTTTT cataaggTca caaaatcacc caccactttg tctctaaatc 120  
 ttattagaaa cttatatTgt ttcattcatc agcttttcat aaaatcaaaa aattcctacc 180  
 actctttctc tcaatcttat tgcaaaaagt aaattcacta ctataaaaaat tggtttttct 240  
 agacatttaa catcggttat gaaccaatgt tagaatgagt gccataaaa gatgaccatt 300  
 gttaacattg gttataaaaa tcaatgttga aatctactat ataagtatgg ttctcaccan 360  
 aaccaatgtg atatactagc aaatagacaa aattatttaa gaattaattc tttntactta 420  
 taatttatat cattctacat actt 444

<210> 268  
 <211> 422  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 268

atctacttca atacactgat tggaaatgat gtggcctaaa actatacctt gctcaaccat 60  
 aaaatgacat tattcaaaat tatgaacaac gttagtttca atgcatctat tcacaacttt 120  
 ttccatacta ttcaacaac catcagaaga ggatccatat acagtgaat catgcatata 180  
 cacctctatg caattttcta aaaaatcact tgaaatacta atcatgcacc actggaaggt 240  
 accaggggca ttgcacaggc cgaaaggcat tctcctatag gcaaaagtgt cgaacgggta 300  
 ngtgaatgtg gacttttcct gatcctcagc agcaatagta atttgcatat aaccagaata 360  
 accatcaatg aaacagtagt gggatatagc tgccaggcgt tcaagcatct ggacaatgaa 420  
 tg 442

<210> 269  
 <211> 400  
 <212> DNA  
 <213> Glycine max

<400> 269

atgcattggt taacatggta acccatctgt ccttgaacca caaatctgta cccgtcgcaa 60  
 gggctctgta tctgtgctcc tctgtgacc accatacaga cctttgccct tccatgcagc 120  
 aacctggagc aattgagcat cccgaagctt atgctgcaga catttacagt agacctctc 180

agccttagca gctaaatcaa ccacaataga acaattatga cctctctatc aacagataca 240  
 accctgaatg gaggaatcac cctaatttca gatagtctag cctcaacaa caacaacagc 300  
 agcttgctcc ttactttcaa aatgctgctg gcccaagcag accatacatt tctccacaa 360  
 tccaacaaca gcaatagccc cagatacagt caacagttga 400

<210> 270  
 <211> 365  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 270

tacttttgtc ttgaaggcag ttctataagc ccataatgca tcattccaact ngcttgacca 60  
 atccttttta gtggaggcta cagttttctc caaaatcttc tttggctccc tgttagaaac 120  
 tctagcttga ccattcgttt gcgggtgata cgatgagact actctygtcg tgacattgta 180  
 atggctcacc atcttctgaa gttggttggt gcaaaaatga gagccccgat cactgattag 240  
 gaccctcgac accccaaagc aagcaaaaat attcttcttc aagaacctca ctatacgttc 300  
 agcatcgctc tttgggcagc cactgcttca acccactgga gacataatca cagcccaagg 360  
 atatt 365

<210> 271  
 <211> 435  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 271

gctggtgagg gtganaatct cagctgggag ctgcccagag aagaaattgt ggctcatggt 60  
 gagactagtg aggtttgtga agatgatgaa ttgcttcctt gaaaccacac ctcccaattt 120  
 cttcatggaa aggtctatgg aagttacaat tgttgagtca ttgttacact tgatgccgga 180  
 ccaagaacat gcataggatt tcccagttaa ttttctcca gagggcacca cccaattgtg 240  
 caagctgttg tcattatcta caagctccga ttttaggctg agaagtgcct ctgagtaagg 300  
 gtcaattgct agaactgctg atgataccat gaagaaggta acaagaataa gatttttgat 360  
 gtagaaagca ttgaaaatct ccattggaac ttggagagca tcacaaggta gagagggaca 420

atngtaagta cccta

<210> 272  
 <211> 431  
 <212> DNA  
 <213> Glycine max

<400> 272

gagacaactt actcgagaag ctagagctta gctacacaca cccctctaata aactaagctc 60  
 acctccttga gaagcttctt tgagaagatt cctaaagaag ctagagctta gctacacata 120  
 cctctctaata agctaagctt acctccttga gatgagaagc tagagcttag ctacacaccc 180  
 cctataatag ctaagctcac cccatgacag aaaacatgag aatacataaa aaaaagtcct 240  
 tactacaaag actacttaata agaatggcca aaatacaagg ccagacgaa agaataacct 300  
 attctaataat ttacaaagat aatcgggctc atacttagcc catgggcttg aaatctaccc 360  
 taaggetcat gagaaccctc gggccttccc ttggatctct agcccaatct acttgagtc 420  
 ttctacccaa t 431

<210> 273  
 <211> 447  
 <212> DNA  
 <213> Glycine max

<400> 273

agctatggag aaccaagcca atcagaatgc tatacgaaat atagatggga atagaggtaa 60  
 caatggtggt aatgacggac cgaggcagaa cggggttgag ggagtaaagc tcaatgttcc 120  
 tcccttcaaa ggtagaagtg atccagatgc ctacctggac tgggaaatga agactgagca 180  
 cgtatttgcc tgcaatgact acactgatgc gcagaaagtc aagctagcaa cagctgaatt 240  
 ctccgactat gcccttggtt ggtggcataa ataccaaaga gaaatgttga gagaggaaag 300  
 gcgagaggta gatacatgga ctgagatgaa aagggtgatg agacaaaggt atgtgcccac 360  
 tagctataac agaaccatgc gacagaaact ccaagggtg tcccaagggg aattaaccgt 420  
 ggaagatatt ataaagagat ggaaatg 447

<210> 274  
 <211> 476  
 <212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 274

nggaacatat aaaattcaat acaaggccct ctcaaggatt tattcaaaac atatgcaagt 60  
tgattgtttg aactaacaaa ctgggtagaa atctaattgg acagtagctt tccctcataa 120  
aatgacaatc aatttttatg tgcttagttt tatcatgaaa cacttgatta gaagcaatat 180  
gaaagtttgt ctggttatca caatacaatt tcattggcta aatttcatag aattgtagtt 240  
cttgaaggag atgtttgatc cacaccgact cacatgtggg tgtggccatg gtcctatatt 300  
cggcttttgc actacattga gcaacattaa actgtttctt actcttccta gagataagat 360  
ttccaccaat ggagacacta tcttgtgtta aagagtctat ctataggaga acctgtgcaa 420  
tcaaaatcac aatacccaaa gaattgcgca tctcatttat cttcatgata taacta 476

<210> 275

<211> 398

<212> DNA

<213> Glycine max

<400> 275

agctctctta agacgaatcc tatttatgct agagcttagc tacacatacc tctttaatag 60  
ctaagctcac ctccctttaga tgagaagcta gagcttagct acacaccccc tataatatct 120  
aagctgacct ccatgacaga taacatgata ataaaacaca agtccttatt acaaagacaa 180  
ctcaggatgc cccgaaatac agggctgata ccctatacta ctagaatggc caaaatacca 240  
tgccttgacg aacgaaaaac ctattctaatt atttacaag ataagcgggc tcatacttag 300  
cccatgggct cgaaagctac cctaaggctc atgagaaccc tagggccttt ccatggatct 360  
ctaccccaat ctacttgag tcttttaacc aatgcctt 398

<210> 276

<211> 448

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 276

agctngacga tgttganaag aaaatatgtt gtcataattg aagaatgaac atgtagcttc 60



taatgactct gaaatgtcct acattaatat ataattgtta tgctacaaat tcacataatt 120  
 cttagtatgt tacgttaaatt ttaattggca aacgtgtata acttatggat atactattat 180  
 gtcattaata cgaataccta gtacatttaa cggttaccta atttaaaata atttggttaac 240  
 attaacccta atatttagag gaataaacag agaataaaaa ttataatcca aaataactta 300  
 tcatttaciaa aatgtgtggg aaaaccaata tgtttgcaa tacatgaaaa ttatatacat 360  
 actegacata tgaaaatata acatggatga tgtctatggc tgatccgtgc gctgccttct 420  
 tcgcgacttg acataaacat tgccatct 448

<210> 277  
 <211> 441  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 277

ttacggacct atgaaactca gctatgctgc nacattacia tagacctcct caacctcagc 60  
 agcaaaatca accacagcag aacaattatg acctctccag caacagatac aacctggat 120  
 ggaggaatca ccctaattct agatggtcta gccctcaaca acaacaacag cagcctgctc 180  
 cttccttcca aaatgctgct ggccaagca gaccatacat tctccacca atccaacaac 240  
 aacaacagcc ccagaaacag ccaacagttg aggctcctcc acaaccttcc ctctaagaac 300  
 tcgtgaggca aatgacgatg cagaacatgc agtttcaaca agagaccaga gctccattc 360  
 atagcttaac caatcagatg ggacaattag ctacacaatt gaatcaaaa cagtcccaga 420  
 attctgacat gctaccttct c 441

<210> 278  
 <211> 374  
 <212> DNA  
 <213> Glycine max  
 <400> 278

agcttgctgt cgaggccttg acctcataat tgtctcatca ctgtgtttga tccattctga 60  
 gagtttccag ggcttctgcc acttccattt aaactgtagc agccattgat gatgacttct 120  
 cttccacttc caaagttttc cggcttgtcc tatagctgct agcctcttcg ttgacaactc 180  
 tccaatgggt atcatctgga tataaaccca ttaaaactta ttgagaaata aacactatca 240

tcacatcat cagggaaata gaatctagca aacatacctt tegtgettca tctaaaaatg 300  
tagctgactc cctgcctgac caattaacaa ctccaggagt gaatttgagt tgctctgggtg 360  
caggaagcga catt 374

<210> 279  
<211> 408  
<212> DNA  
<213> Glycine max

<400> 279

agcccatgtg tegtctctgt catattgggtg ccaaagaatg atggaagctg gaggatgtgc 60  
tcacattgca gagctttcaa caacatcacc attaagtaca ggcatctcat tcccaagcta 120  
gatgatcttc ttgatgaatt gtatggatca tgttacttct ctaagataga tttgaaaagt 180  
ggatataatc agattacgat tagagaaggt gatgaatgga aaacaacttt tataaccaag 240  
tatggcttat atgagtggaa ggtaatgcc a ttgggtttaa caaatgacct tagtactttc 300  
atgaggttaa tgaatcatgt ttgagagag ttcttacgac aatatgtggt tgtctacttt 360  
gatgacattc ttgtgtatac cacaaatgtg gatgagcatt tgcaacat 408

<210> 280  
<211> 479  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 280

tagttggatg anattccatg atcacacctt atagtaagta gataaacatc ctanatcagg 60  
aagaacaagt tgatctagct acctagaaat caaatgtgta atcctaacct atgaagtatg 120  
ccagggatgt cctaccttct ctcttacata ttgcggcaga gcaattgatg ccaagttgca 180  
cacagccgtt tctgttggac ttgtatactc aattatctca gtgcacaagt ttcattgactt 240  
gattgtgccc aaattctgtt gggtgctttt cctattgcaa gtgtcctagg atatagaaaa 300  
atgaagaggt ttcaatgaaa ataaatacaa aatgcactga cagaaactta gcaaaagtca 360  
aacaagcatt tgtaaaccac cttataaaat atgtaaggag ttccagtttc tatctgtgac 420  
ttcaaaattt caaaccagag agattctgtg cctgaacaac cttctttgct tttcccat 479

<210> 281  
 <211> 436  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 281

agctntgatg atgtcgagaa gaaatcacat gtttgtcatc atcaaaaagg ggagaatgtg 60  
 attgtatgta tacatgattt tgatggtgaa gaatcaaaac aaggcttatt tgcttcaaga 120  
 ttaatacaag attgtttcaa caaacaagc cttgattcaa gatttcttca agatcaagcc 180  
 ttacctcaaa acgaaagggtt tcaagtcaac caaggcacat gtaattgatt accaatacat 240  
 gtaattgatt accaatgggtt tgaaagtgtg taatcgatta ccagagactt tgaacgttgg 300  
 gaattcaaat tttaaatgaa gagttacaac tattcaagaa aaataactat gtaatcgatt 360  
 acactaatgc tgtaatgat taccagagag gattntcaac gaatatcgcc aacaatcaca 420  
 tcttatcatt tggatt 436

<210> 282  
 <211> 455  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 282

taacanaagg catgcgaagt ggggtggaatt cctagagcaa ttcccttatg ttatcaaaca 60  
 taaaaagggga aaaggtaata ttgtagccga tgctctttct cggcgtcatg cattactttc 120  
 tatgcttgaa acaaaattga ttggtcttga atgtttgaaa agcatgtatg aaaatgatga 180  
 aacttttgga gaaattctta aaaattgtga aaaattttca gaaaatgggtt tcttttagaca 240  
 tgaaggcttt cttttcaaag aaaacaaatt gtgtgtgcct aaatgttcta ctagaaattt 300  
 gcttgtttgt gaagcacatg aaggagggtt aatggggcat tttgggggtcc aaaagactct 360  
 agaaacatta caagaacatt tttattggcc tcatatgaaa aaggatgtgc agaaattttg 420  
 tgaacattgc attgtatgta aaaaggcana gtcta 455

<210> 283  
 <211> 458  
 <212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 283

agcttganat tgaacaacgg aagctctcca gatactctta tggtcataac ttatcacacg 60  
gaggtccaat tgaggcgcat aatatatcga gacgctcgaa attaaacaac gaatactctc 120  
gagaaattca aatggtcgta acttatcaca cggaagtccg attcaggtgc ataatacacc 180  
gagacgctca aaattgaacc acgaatgttc tcgagaaatt caaatggta taaattttca 240  
aacggcagtc cgatttaggc gcataatata tcgagaatct tgaaattgaa caacggaagc 300  
tatccagaaa ttcaaattgg cgttacttgt cacacggaag tccgattcag gcgcataata 360  
tatcgagacg ctcgaaattg aanatcgga gctctcgaga nattcaaattg gtcgtaactt 420  
ttcaaacgga aagtcggatt aagcgcataa tatatcga 458

<210> 284

<211> 431

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 284

atatagagtt tttgggtcat gctggattct attgatgatt cattaaagac ttttccaaaa 60  
ttgctaaacc actgagtaat ctgatgaaca aggatgctgt gtttatgttt aatgatgaat 120  
gcttagaagc ctttaatacc cttaaagcca agttgggtctc tgctcctgtg attacagcac 180  
tagactgggg actagagttt gaattaatgt gtgatgcaag tgattatgca gtangtgctg 240  
tgctgggaca gggaaagggc agaatttttc ataccatcta ctatgccagg aaagtgttga 300  
atgatgctca gatcaattat gccaccactg agaaagaatt gttggcaatc gtttatgcac 360  
ttgagaaatt ccgatcttat ttggtggngt caaagatagt aatttacact aatcatgcaa 420  
caattaaaca t 431

<210> 285

<211> 465

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 285

tagaaaggtc tactcanatg gatgtatggt aagttgataa gtaaaaaaaaa atgcaaaaag 60  
 tagaanatgc aggatcatca cgtgcccatt gattcttggg ttctaataatc aaataattaa 120  
 taacaagaag aaattcaatt aaataatfff ttgaaatcac caaatttaat ttctaattt 180  
 gataaatcaa aggcattaat tatataacta aaccttacca tgaaaaattg gcatcattat 240  
 gtatccttct actcctatff taaatffat tatattgaac ttatattfff ttagtcaaca 300  
 ttgccaagat gtggatcagg tttggccttc caaagacaat atcaatgatt tataataatt 360  
 tatcaaatca tttgatattt tgatttataa taatttaaga caatatcaat gatttatatt 420  
 aatttataca ctctgatgaa ctanaccct tgacaaatag ttaat 465

<210> 286  
 <211> 464  
 <212> DNA  
 <213> Glycine max

<400> 286  
 atgttctgca ggaaacttgt gtccctttta agtttatgac tttcgggtcta gatttatfff 60  
 aaaaaattgc aatagttgta gtatggtaat atatgcttct caccgaaccc tctctggaat 120  
 ttgagactac tctctctgta gtctttaagc tatagttctt ttgcctcttc aatffffgtt 180  
 ataccctfff tagctgtfff ttgatgcatt attttagct gattattaga tttgactgct 240  
 tgtggacaat aatttctagt ccatattctt tataaaaatt gagaatgact ctgatatgct 300  
 ttagctffff aaacaaacct ttggccggca ccaaatactg ttactttata tacttataac 360  
 tcaattgcag gtatagattg gcatattcat caaactatag ccatatcttg gatccgttaa 420  
 ttgagaacaa ttaccaatta ttcatgatcg agaggcttat aatg 464

<210> 287  
 <211> 397  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 287

agcttgtgcc ttttcacgct tggaatatga atgtagcata tagatccaaa gacccttagg 60  
 tgctttgctg atggcttctt cccgttccaa gcttcaattg gagtcttgct ttttacagac 120

ttagttggac atctgttgag tatgtaaaca gcagtgtaga ctgcttcaac ctagaatgtg 180  
 ttaggtagtc ccttctcctt gagcatcgat ctageccattt ccataactgt gcgattcttt 240  
 ctctcggaca ctccattttg ttgaggagaa tatgcgattg taagttttcg ctcaatgctt 300  
 tcacctcac aaaatctttc aaactcgca gatgtgtact ttntgttgcg atcacttctt 360  
 agtactttta tccgttttcc acttttgatt tcagcaa 397

<210> 288  
 <211> 315  
 <212> DNA  
 <213> Glycine max

<400> 288

tcattccttg tttcactcat gtgtccaagt ctttgatggc atatggttga attgttgaca 60  
 gccttagtaa ctgctaccat atactcatct gcaatcatgt aaagagatcc tcgcttcttt 120  
 ccacgagcca caatgagatt gccttttgtt accttccaag ctctatatcc aaaagtgggtg 180  
 taatgccctt cattatccaa ctacctata gatgttagat ttccctttta ggcaagaata 240  
 tgtcaaacat tgtacagtgt ccatagggat ccactagagg tcgtgatgtc aatatcacct 300  
 cttccgacaa tgtca 315

<210> 289  
 <211> 377  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 289

ggactcatgt tatctacaat cacttggttac gttgattctt aagaaagtcc tctaagacaa 60  
 caccceatat gccatgtctc tcattnggtc ccatgactcc tatctgatgt ccctgcatca 120  
 ccaataattt aagtgcccaa ctaatgggtc catgcatatc cttatgtcta tataaatatt 180  
 caaggccgca agcattgagg accaacacaa atcattcaca tcataaagtg ttgaaatta 240  
 aaattctcaa cacttctctt caaccattct cttctcagat caatacaaca atgggatttc 300  
 gttacctggc atatataggc attcaaagcg gtgacgcacc taaggctatc ttgcagtcta 360  
 tgtcggagag aaattga 377

<210> 290  
 <211> 260  
 <212> DNA  
 <213> Glycine max

<400> 290

aagatctttg gatgccgtca gaaattttat gactatgagt gtgagtattt ggtacttggtg 60  
 aattcattac tcttctatgt agaaatttat tgatttacac cccttgcaaa ctacagcattt 120  
 gttacacaaa gcttaaaatt cagagagaac gcaccttgtc ctatgtatta ttaaattcgc 180  
 ttcacaaccc cttgctaact cagcagcgtg caagccataa tgcattcatg tgatatattg 240  
 ccgtgcgaca acaacaacat 260

<210> 291  
 <211> 374  
 <212> DNA  
 <213> Glycine max

<400> 291

tggccccaca tagagaatgg ccaaggtgta tccatgacgt tcaaaggat ggtggagcat 60  
 taacattatc agtgaaggcc tgacacttat ggcatttctt cacatggatg caacaattgc 120  
 tctccatagt gagctagtaa taccagttc tcagaatttt ctaggccatg gcatgtccat 180  
 tggtagcgt tccaaaggat cttttatgca cctctactag aatttgctca gcccctttag 240  
 catccatata ccgaagtagt accatgtcat ggttattctt gtataggata ttcccactca 300  
 ggaagaagtc ggtagccaac cttcacaaca ttcttttatt gttgtcagag gcctcccgtg 360  
 ggcatctctt gtct 374

<210> 292  
 <211> 380  
 <212> DNA  
 <213> Glycine max

<400> 292

ttaactcgga ggtccgattc aagcgcataa tatatcgaga cgctcgaaat taaccaacgg 60  
 aagctctcga gaaattcaaa tggtcataac ttttaactcg gaggtccgat tcatgcgcat 120  
 aatatatcga gacgctcgaa attgaacaac ggaagctctc gagaaattca aatggtcata 180  
 acttttcaca cggagggtctg attcaggcgc ataatatatc gagaccctct aaatttaaca 240

acggaagctc tcgagaaata ccaatgggtca taacttttca ctgggatgtc cgattcaggc 300  
 gcatcataca ttgagacgct ccagattgaa caacggaagc tcttcagaaa ttcagatggt 360  
 cataactttt cactcggatg 380

<210> 293  
 <211> 164  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 293

gcgtctgtat atgtgatgcg cctgaatcgg acatccgagt gaaaagtat gaccatttga 60  
 atttctcgag agctttcgat gtttaattnt gagcgtctct atataatata agcctgaatc 120  
 tgacatcagt gtgaaaactt atgaccatan taacttctgg agag 164

<210> 294  
 <211> 452  
 <212> DNA  
 <213> Glycine max

<400> 294

tcaagaaaaa gatgycctca gcaaattcct tatttccaga atggaattct atcaatagac 60  
 ctccaatctt taatggagag ggttaccact actggaaaac ccgaatgcaa atttttatcg 120  
 aggcaataga tctaaatata tgggaagcca ttgaaatagg gccttatata cccaccacag 180  
 tagaaagagt ttcaatagat ggtagtctcat caagtgaag cataaccata gaaaaaccta 240  
 gagatagatg gtctgaagag gatagaaaac gagtacaata caacctataa gccaaaaaca 300  
 taataacatc tgccctagga atggatgaat atttcagagt ttcaaattgc aagagtgcta 360  
 aggaaatgtg ggacactctt cgattaacac atgaaggaac tacagatggt aaaagatcta 420  
 ggataaatgc actaactcat gagtatgaat ta 452

<210> 295  
 <211> 333  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 295



ctaagcttat ccaggggaga cggaccatct caagtgcctng aaagaatcaa tgacaatgct 60  
 tacaaagttg agctgcccgg tgagtataat gttagttcca ccttcaatgt ctctgattta 120  
 tctctttttg atgcagatgg agaatccgat ttgaggacaa atccttctca agagggagag 180  
 aatgatgagg acatgaccaa gagcaagggc aaggatccac ttgaaggact tggaggacct 240  
 atgacaaggg ctagagcaag gaaagccaat gaagctcttc aacaagtgt gtccatacta 300  
 tttgaataca agcccaagtt tcaaggagaa aag 333

<210> 296  
 <211> 441  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 296

tgcttctata gatggtaggg accaagcaag gaaatattca catccttcaa ggggccacta 60  
 tgacaggatc aactatttca caatatgaga gccatgcgtc caatgggtca tccaatgata 120  
 attctctatg gcatctgtgt ctggggccat aagtgaaaac ataataaaag ttttgagcaa 180  
 gcgaggctta cttggaaaac ataaggttga acctcttcag ttttgtagc attatgtcta 240  
 aggggaagtaa cataggacaa aatttctaaa ggttggtcac actacaaagg gcattttgga 300  
 ctatgntcca tttgactact ggggggactt tgagagttcc atcactgaga ggggaaaggt 360  
 atttcctctn catcatcaat gnatactcca caatgacatg ggtattcatg atgaagtaga 420  
 aatctgaagc ttaccaattt t 441

<210> 297  
 <211> 398  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 297

agcagcaaga ggtcttgcaa agattcatgc ttagtacagt gcagccaaag tgectcacgg 60  
 gaatgtgaaa tctccaacg tgcttctaga caagaacggt gttgcatgca tctccgattn 120  
 tgggttatca ctctattaa acccggttca cgccattgcc cgattgggag ggtacagggc 180  
 cccggagcaa gaacagaaca agaggctatc tcagcaggct gatgtgtata gtttcggagt 240

attgttgta gaagttctca caggaagagc tcttcatcg cagtaccctt caccggctcg 300  
 tccccgaatg gaggtagagc cggaacaggc tgcggtggac ctteccaaat gggttcgctc 360  
 ggtggtgaga gaagagtga ctgcagaggt ttttgatc 398

<210> 298  
 <211> 345  
 <212> DNA  
 <213> Glycine max

<400> 298  
 gagtagtgc ccactggtaa aactaacttt ccaaattttt gccttcgcag gaaatggccc 60  
 cgaggaagct tgcctcaaag aggtccagga aggacaaggc agccgaagga actagtccg 120  
 ctccggagta tgacagtcac cgettttagga gcgctgtaca ccagcagcgc ttcgaggcca 180  
 tcaagggatg gtcgtttctc cgggagcgac gcgtccagct cagggacgac gagtatactg 240  
 atttccagga ggaaatagct ctacggagtt ttaaaagact ggctaagaat ttggtaaaac 300  
 ataagcactt agacaatgaa ggaaagctgg agttgctgac atgat 345

<210> 299  
 <211> 304  
 <212> DNA  
 <213> Glycine max

<400> 299  
 atctaggtcc ttatatggat ggagctcaac cttgtctctc acttacatat taagttcact 60  
 aaggaaccta gcaatacttg ttctttctc cttcctaagt ccagctctca aaatgagtag 120  
 ttccatttgt tgctatact cttcaacact cacactccct tgtctaagcc tttggagctt 180  
 gtccataagc tccctttcag agtaggaggg gatgtgcctc ttctaaggg cactattcaa 240  
 gacaatccta tacctactag aggatcccca tgaatccttc tttccctagt gatgcaatcc 300  
 tacc 304

<210> 300  
 <211> 166  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations

<400> 300

atgaagcaac aatgatgtaa gctccattgg agcttgtag cctaggatct tcttcatcaa 60  
tggattcctt tgcttcttgg aagatgaatg gcagcgaat ggagaaagga agagagagag 120  
gagacgccac ttcaaggaga agatgagtct agaagaagct caccac 166

<210> 301

<211> 400

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 301

tcttagtctc acctgatgaa ttcattggcta ctcatgcac tcttctaata acaatagcat 60  
cacttctgac actaaattgc tgggagtttg aagccattct ctcaattaaa tttctggctt 120  
cagcaggggt catgtctcca agggctccac cactggcagc atctatcata cctctcttca 180  
tggtgctaag tcttccataa aaatattgga gaagaagctg ctctgaaatc tgggtgtaag 240  
ggaaactagc acataatttc tttaatctct cccagtattc atacaggctc tctccacaga 300  
gttgtctaata acctganata tctttctga tggctgtggt cctggaagca gggaaaaaaa 360  
tatctaagaa tactctcttg aggccattcc agctcgtgat 400

<210> 302

<211> 349

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 302

tgtgtcacga ttcactgtga cagtcaaagt gccattcact tagcaaatca ccaaagtac 60  
catgagagga caaagcacat agatgtaaaa ctacacttca tcagagatgt gattgaatct 120  
aagaaggtga aggtggaaaa ggtttcaaca gaagaaaacc cagctgatat gttcacaag 180  
tccctctcta gtgtcaagtt caagcactgt ctgaacttga tcaatttcga agatgcctaa 240  
agctgattgg tagaagtga gccctgaatc acaagataga cactngctaa tttggagtca 300  
aggtggagat ttgtggtgtg tgactcanaa tcacaattgg cacaagtga 349

<210> 303

<211> 325  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 303

ntactgaaga aagctagggg tgactcacct tgcattagta ctatgcccat ggccgtgccg 60  
 gaggcgtccg ttctgagtgt gaatggacgg gaaaaatctg gcagagctag cactggtgcc 120  
 tgtgtcatgg cacgcttaag agagtcaaac gcaagttgag aatcctcgcc ccaatggaaa 180  
 ttatccttct ggaggagtga agttaacagc gccgcaaagg cagcataatc acggatgaac 240  
 ttgcggtaga agtccgttaa acccaaaaaa ccacgcacag attgggttgt catgggtgta 300  
 ggccaattca ccatagcttc tatct 325

<210> 304  
 <211> 289  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 304

gctacgctct taactgacac gctcttaata ttcgaagagt atccttgtgg aaccttcacc 60  
 cgacgaagac actgacaaan acttatatta ttcttctttg acaaagtatg gcaggatagg 120  
 gacaaagtaa atttcttccc atcagacctt ggatgcaact gtgatcgat acccatatca 180  
 gctagatctt gacgggtatt caagccatcc ttcgtcttgc cttgaatgtt aaggagcgtc 240  
 ccaatcacac tgtcaciaaac atgtttcttc acatgcataa catcaatac 289

<210> 305  
 <211> 307  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 305

tatcgagacg ctcgtaattg aaaacagaag ctctgagcca attcaaacga caataacttt 60  
 taactcgggt gtccgattgt gtctgtagt atattgagac gctcgaaatt gaaaacagaa 120  
 gctttgagca aattcaaacg acaataactt ttgactcgga tgtccgattg tgtcccgtag 180  
 tatatcgaga cgctcgaaat tgaaaactga agctctgaga aaaatcaaac gacgataact 240

ttttactcgg atgtccgatg gagaccgta atatatcgag acgctcgta ttgagaacag 300  
aagctct 307

<210> 306  
<211> 273  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 306

cacttggtga atatgcttct ttgctntcct tgcgctagcc cttgtcatag gtcttccaag 60  
atcttcaagt ggatccttgc ccttgcctt ggtcatgtcc tcatcattct ctccctcttg 120  
agaaggattt gtctcatat cggattctcc atctgcatca naaatagata agtcagatac 180  
attgaagggtg gtactaacat tatacttata gggtagctca actntgtaag catcattgct 240  
tctttcaagc acttgacatg gtccatcttc cct 273

<210> 307  
<211> 435  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 307

gcttanacat tgagaagaca gtatgagctt cttgctatgg atgagactga atcaatagct 60  
gagtatttca ccaagattct cacactcacc aataagatga agtgttgtgg agaacagatt 120  
aaggaacaac tgggtggtga gaagggtgctc agaacactga catcaaagtt tgatcacatt 180  
gtggtggcca ttgaagaatc aaaggatctt acatctttca agcttgaaga actacaaagt 240  
tcacttgaag cgcattgagca gagattaata gacaggaatc ctgagaagca caatgatcaa 300  
gccttacaag ctcaaacagg cataaagttt gacaagcaat gagacaaatc caaaaagaac 360  
aaaggatagt ggtgtgatga gaagtggaga aagactgaag attccatattg tgggtgattct 420  
ggatcatctt cacag 435

<210> 308  
<211> 352  
<212> DNA  
<213> Glycine max

<400> 308

cggcgtttgt agaacctgtt acatgaggtc ttttaggctc ttgtgggtccg tgatgataat 60  
gaaggggtac ccgaggaggt aatggcgcca ttttcgaact gccgaggtaa tggcatgaag 120  
ctcgtgaatg taagtagatg catgttgaag gcgtgggcag aacatcttac tataaaaggc 180  
gattggatgt gatctctgtt gaagaatggc acccatggca atagcaaagg catatgtttt 240  
gaggacaaaa ggcaatgaga aatccgacga ggccaacacc ggagcctgag tcattacttc 300  
cttatgacga aggaaggagt gggtagcctc ttcagaccat tagaattgat ct 352

<210> 309

<211> 431

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 309

gcggtagaga gattgagatg atattgtagt cttcatttta ctgtcaacat gcaagggaca 60  
tttctctcgt ttttagacatt gtttcacaaa ttccaacggt ggagatgtgt gaaaatggat 120  
tccaaagtcg gtgtccaaat tgcacaatga tccaacgggt aacgagtcca ggatcatagt 180  
tttaatgaga taggttttgg gtctctacga gaaaagagaa agctagaatg cgaaggatat 240  
ttctctcacc tctgacgttn ttggcacaat ttcaacgggt agaatatttg aaagtgagtt 300  
ctaaacctgg ttctcaaatt tcatgatgat ccaacggtta acgagtctga gatcggttgtt 360  
ttactaagat atgtttgagt gtatgcgana aanagagagg aatttggaaa gaggagaagg 420  
gaaaacgaaa t 431

<210> 310

<211> 354

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 310

agaaccaaag aagagcaagt tatattgaga catgaacttt ggttatgcga aaaacttttt 60  
ggatgagaaa acatatatct ggatatgggt tataattcta tacttaagac atttaaaata 120  
gaactgaggg aatcaaactt aggtcaattt aattctagtt tacgatatgt actcatgggt 180

aaattntatt ttagtgattt taatttaate ttataaaatt atttagatat gttatgtgat 240  
 atgtcactta catagttatt aaagtaacat atatgatttg ttatatatta catcatttca 300  
 tgaataaate ttttttatta tgcagaaaaa gcaatggatt nttaattat tttt 354

<210> 311  
 <211> 447  
 <212> DNA  
 <213> Glycine max

<400> 311

tagactaact tcagcctacc attctcatac tgatggccat actgaacgga ccattcagtc 60  
 attgaaggac cttctaagag cgtgtgtctt atagtagaat gaaagctggg agagttttct 120  
 tccatcgata gaggtcactt ataacaatag ttttactct accattggca tggatcccta 180  
 tgaagctctg tatggtagaa ggtgtatggc acccttatgt tggctagagc ccagagaagg 240  
 ccttacctta tgacctaaag tgggtacaaca aaccaccgag aaagtcaagt taatccagga 300  
 taggatgatg actgctcaca gtaggcatac aagttatcat gataagagga ggaaagatct 360  
 ggaatatgag gatggtgatc atgtattctt gagagtcact tcgtggactg aggttggctg 420  
 agcattgaaa tcccgaaaac tcacacc 447

<210> 312  
 <211> 355  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 312

agcttggact tcctatgttt tgggaacctc tccttctca ggtgtacca aaccaatca 60  
 cctgggttcaa gcacgacttt ctttctgctt ttgttgggtc tccttgcata gcttgcattt 120  
 ttgttttcaa tttagacctt cacttgctta tgcaacttct tcacatactt agctttagcc 180  
 tctgcgtcct tatgcttaaa catagcaatg ttagtcatag gcaacaaatc aagaggtgtc 240  
 aaaggattaa atccatacac tatctcaaat ggtgaacaat tagttgtgct atggacagcc 300  
 cgattatagg caaactaaac atgaggcann acatgcttcc aagtttaaga ttttc 355

<210> 313

<211> 216  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 313

tgcctatggt gctgcggatg attgcttcat atntacctgn gtcaactcta tcagagagaa 60  
 atcacacacc ttcgaagtat tcaaagagtt gagtctaaga cttcatagag atgaagactg 120  
 tgtcatcacg agaatcacga gtgaccatgg cagagagttt gaaaacagca ctgttactga 180  
 attctcacat ctgagggcat actcatgagc tctcta 216

<210> 314  
 <211> 384  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 314

agctnggcaa ggttcttttc ttgacaatgt gtcacccttt aaccaatggg caaactgaag 60  
 tgataaatca aactctttct caaatcctat gacacttcat taaaggtaat ttgaaagctt 120  
 ttgaagattg gctgccccat gtggaaattg catacaataa gggaaccaac tataaccattc 180  
 ttcttttgaa gttgtttatg gttttaacct tttgtctctt cttgatttga ttcttttgcc 240  
 taatattgat tctatgttga ataaagatgg atttttcaaa gcttctttta ttaagaactt 300  
 gcatgagcaa gtgaaggctc aaattagaag gaagatggaa caatatgtta aacaagccat 360  
 caaagggagg aagaagatgg tggt 384

<210> 315  
 <211> 397  
 <212> DNA  
 <213> Glycine max

<400> 315

ggctgcagct ttagattttt aataaaagac ctatgattat tgaagaatct atccatgttg 60  
 cttttgatga gactaacctt ataggccaag aaaggaaaca cttgatgata ttaacggatt 120  
 cattataaga tatgcacttg gtgaaagggc acaagacaag gaaatggaaa tgaaaaagac 180  
 tttcaaattg atgaaaataa aataaatata gatcttccaa gagagtggag aacttcaaga 240



tatcatcctc ttgataatat catcggtgac atctcaaaaa gggtaacaac tegacactct 300  
 ctcaaagatc catgcaataa tatggctttt gttcctttta ttgaatctaa aaattttaa 360  
 gaagccataa ttaatgaaca ttggattatt gttatgc 397

<210> 316  
 <211> 321  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 316

agctntagca actctntctt tttgtttagt ctagacttct aatgctctta atctctcctc 60  
 gtctaaatca actaactcat ctgacatcat tttccaataa tggtcgacgc gaatgtccat 120  
 ttgtttttgt actctagctg attgcaaatg tatttcgacc ggaagtatag catcgtgccc 180  
 ataagtcagt cgaaatgggg tagtattagt tgattcctta ggagaatttc tacatgcccc 240  
 tagaacttga tctaacgttt tattccaatt tcttggtttt tgggcaatgt gttttttaat 300  
 caagttaatt acaatcttat t 321

<210> 317  
 <211> 399  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 317

agctntctta agatcaagcc ttgcctacaa ggaaagggtt caagtcatcc aagggacatg 60  
 taatcgatta ccaatgggtc gaaagtgtgt aatcgattac acatcatatg taattgatta 120  
 ccagagactc tgaacgttgg gaattcaaatt tttaaataa gagttacaat tgttcaagaa 180  
 aaacaactgt gtaatcgatt acaccaattc tgtaatcgat taccagagag gattttcaag 240  
 gaatategcc aacagtcaca tcttatcatt tggattttga atggccatca aaggcctata 300  
 tatatgtgtg acttgggaca aaattagaga gagttttgct ggtccaaaat gtcttatcct 360  
 ctcanaataa aatgagagag atntccagag aacttcatt 399

<210> 318  
 <211> 408  
 <212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 318

atccttttca ttttacaagc ttgaaaagtt nttgaaaggc tttaaaagcg ttactcttag 60  
aagatacgaa taaagtccag gtatatatag agcagtcac tacaataacc aaagcatagt 120  
aatccctcc gttgctcac gttctagaag gacaaaaag atctagatgt aaaagttcaa 180  
gcggtctaaa ggtagaaaca acatttttag atttgaaaga tgctctagtt ttctttccat 240  
tntgacatgc attacataat tcaccttca caaatgtgag ctttaggagt cctctaacta 300  
actccttaga cactagctta tttaatgat tcatgtggat atgagttatt ctccatgccc 360  
aaagccaaga gagatcatca ctacttatta aacaagtcac gtttgagt 408

<210> 319

<211> 368

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 319

gtgccttatg aatcctcccg tgcttatgcc accagtacct ggaatgcctc tcattntgta 60  
catgacaatc ttagacgagt caatggggtg tatngctggg caacatgacg aatccgggaa 120  
gagagagcgc gcctgttact acctaagtaa gaagttcacg acctgtgaga tgagatactc 180  
cttgctcgaa agaacgtgtt gtgctctagt gtgggcatcc catcgccctaa ggcagtacat 240  
gctgagctat actacctcgt tgatatccaa gatggaccgg gntaagtaca tctttgagaa 300  
gccagctctc acgggacgaa tcgcccgggtg gcaagtcctg ctatgcaagt ntgatatant 360  
ctacgtca 368

<210> 320

<211> 236

<212> DNA

<213> Glycine max

<400> 320

agcttaacta cacactcttg gcgcgtatga tgaatgaaca gcgcttgccc atgacattca 60  
tgtggctcca aatgaaagcg cgaaacggag actcgccgta tacaactcgg caacctcatt 120

cgcgaggctc cagactccta ggtggaagac acatgaacag tgctaggcaa tgacattcat 180  
 ggggctccga agaaagggga caatggagga ctgcctata agggacacac ttaagc 236

<210> 321  
 <211> 367  
 <212> DNA  
 <213> Glycine max

<400> 321

agcttgctaa cccatggaag ctctaatat ctcccacact ctttgggggtg ggccattctt 60  
 ggatggcctt gattttctcc tagagagga aactacaaac cctaagaaaa ctatattatc 120  
 tacacgaaag gtacacttct ctatatttgc atagagggtg ttttctctaa ggactgaaag 180  
 aacttgctg agatgtccta aatgatcatc taggctccta ctgtacacta aaatatcatc 240  
 aaaataaaca acttcaaatac tgactatgaa atcccttaag acatgatgca taagcctcat 300  
 aaagtgctt ggtgcattag tgagcccaaa agacatcact agccattcat accaaccaaa 360  
 cttggtc 367

<210> 322  
 <211> 371  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 322

agctntgaat tagtgtctgg gttgaggata aattttgcta aaagtaaatt cagggcaatt 60  
 agcaagtcac atcagcggat tcaaatgcg gcaaattacc ttaagtgcag agtattggcc 120  
 attcccttct tgtatttggg tatccctatt gaggcaaacc caaagcgtag tgtgatatga 180  
 gaccctatag ttgagagatt tgagagaaaa ctatcaaagt ggaaccaaag acatctatct 240  
 tttgggggaa ggatcactct tataaagtca gctttaaatt caatccctgt ttttctttc 300  
 tttctttttt caggggccca aagaacgtgg ccatcaaatt ggtgaggctg caacgatggt 360  
 tcttatggga t 371

<210> 323  
 <211> 192  
 <212> DNA  
 <213> Glycine max

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tgctgaccac catagagacc tttgttcttc catgcatcaa cctggagcga ttgagcaacc 60
tgaagcttat gctgcanata tataacaatag acctactcaa cctcagcagc acaatcaacc 120
acagcagant aattatgacc tctccagcaa cagatacaac catggatgga tgaatcacc 180
tagcctcaca tg 192

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<223>      unsure at all n locations
<400>      324
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gctccttcaa ctgcacaagg ctcttaatat ttgaagagta tccctgtgga accttcaccc	60
gatgaagaca ctgacaaaaa attatcttct acttcttgga caaagtatgg caggctgggg	120
gcaagtaaatt tttcttccca tcagaccttg gatgcaattg tgatcgtata cccatatcag	180
ctagatcttg acaggtattc aagccatcct tcgtcttgcc ttgaatgtta aggagcgtcc	240
caatcacact ttcacaaaaca tttttctcca catgcataac atcaatacaa tttctaacgt	300
caagatcaca ccagtacgga agatcaaaga aaatggatct cttcttccat atgcaactct	360
gacttttatc cttctttngg gtcttcccaa atacaatatt c	401

<400> 325

136

<210> 326  
 <211> 470  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 326

tgctggtaca tacgacatcc tcacggatca gtaccaagtc cttgctctct tgcaattctg 60  
 tgtaaaagga cacaatatag taaggagccg cttgtgttcc cctggccttg taatcttcaa 120  
 gacctgtaga aaccatgtgt ggcgtctgga ctgcaagaaa aaaacgaata cgtattgtga 180  
 gactacgatg gaagtgttga aaaagaaaac actcgggaata aataaatcat tctttacatg 240  
 tctttttaat aatatttcac gttctgtaag tagaaaattt gttaagagga agcatgtcca 300  
 taactatgtg caggagagaga ttagaattcg atttcttgat aggtaaggta tatccaaagg 360  
 gtgtcaacag tagtttatat gaatctagaa actgtccagg acctagtggc aaatattaac 420  
 atctttntat atatgtaact aanactgcat ctctttctcc aggctcgga 470

<210> 327  
 <211> 437  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 327

acgagcgtct cgatatacta cgggacataa tcggacatcc gggtaaaaag ttattgttat 60  
 ttgaatttgc tcataggttc tgttttcaat tacgatcgcc tcaatatatt atgggattca 120  
 ttcggacatc cgagtaaaaa tttattgcca tttgaatttg ctacgagctt ccgatntcaa 180  
 ttacgagcgt cttgatatac aacgaaaaac aatccgacat ccgagtaaaa agttattgtc 240  
 gttagaatat gcttagagct tctgttttca attacgagcg tctcgatata ttacgggact 300  
 caatccgaca tccgagtaaa aagttattgt catttgaatt tgctcatagc ttctgtnttc 360  
 aattacgatc gctcgatat atcatgggat tcattcggac atccgagtta aaatttattg 420  
 cctgttgagt ttgctac 437

<210> 328  
 <211> 436  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 328

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tgcagcaaat tctaacgaca gataactttc actcggaagt tcgattgagt cccgtaatat 60
atcgacacgc tcgaaattta aaaccgaagc tcatagcaaa ttcgaacgac aataactttt 120
cattcggaag tctgattgag tcccataaca tatcgagacg ctcaaaatag aaaacagaag 180
ctcgttgcaa attcgaacga caataacggt ttactcggat gtccgattga gccccgtaat 240
atatagagac gctcgaaatt tanaaccgaa gctcgcagca nattctaacg acaataactt 300
ttcactcgga agtccgattg agtcctgtaa tatatcgaga cgctcgaaat ttaaaaccga 360
ggctcgtagc aaatacgaac gacaataact tttaactcgg aagtacgaat gagtcccggt 420
acatattgag acgctc 436
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<210> 329  
 <211> 400  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 329

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agcttgaagg anaacttaat gccttgggtca acctagtaac ccagcttgcc atgaataaga 60
aatctacgct tgttgcaaga gtctgtgggc tatgttcttc tgcagatcac catacaaata 120
tggttccttc tttgtagcaa tctggagtca atgagcaacc tgaagcttat gctgcaaaca 180
tttataatag acctctcag tagcaaaacc aataacaaca gaataattat gacctttcaa 240
gtaatagata caatccaggt tggaggaatc atccaaatct gagatggaca agtcctccac 300
aaaaacaaca gtctgtccct cattntcaga atgctgctgg tccaagcaag ccatatgttc 360
ctcctcaata cagcaatagg aaccacaaca gtcaccacaa 400
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<210> 330  
 <211> 401  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 330

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agctttgatt tcctttgttc cgganacctt tcttttctca tgtgcaccca aaccaatct 60
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ccgggttcga agacaacett cttctcctt ttgttggett gtttagcata gcttttattt 120  
 ttctctcaa ttgatcttt gactctctca tgaagcttct tcacatagtc cgcctttgct 180  
 tgaccttctt tatgcttaaa aacagaaaca ttaggcatag gcaaaagatc aagaggagtt 240  
 agtgggttaa aaccataaac aacttcaaaa ggagaacaat tagtggtgct atgaatagct 300  
 ctattgtaag caaattcaac atggggtaaa caagcttccc aagtttttaa gttcttctc 360  
 aaaactgtcc taagcaaaga tcccaaagtc ctattaacaa c 401

<210> 331  
 <211> 258  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 331

agcttgaatn tgcgatgatg tgttattgat actactacaa aaaacagttt taacatcggc 60  
 ttattaacat tggttttgtc caaaaccgat gttaagttaa acgcggtgac atatttgtaa 120  
 ataaagtatc cttcttaaca tcggtttttc caaaaaaccg atgttaacta atgatgttaa 180  
 catcggttat tggaaaaccg atgttaacgt atgataatgt aacattgatt ttttggaana 240  
 ccgatgttaa tgcataata 258

<210> 332  
 <211> 391  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 332

nttccacat aactcttcca atctttgatg gagagaatta tgatctttgg gaagtgaana 60  
 tgcaatccta catggagtct ttggatttat gggatgctgt ggaagaggat tatgaaatat 120  
 atccgctgca tgaaaatccc accatgtccc aaattaaaaa tcacaaggaa agaaagatga 180  
 agaatgcaaa ggcgagggtca tgtttgttca ctggtgtttc acaaagata ttcacagaa 240  
 tcatgactct taaatcacc aaagcaattt gggattatct gaaagaggaa tacgctgaag 300  
 atgatagaat acgaagcatg caagtgtga atttaaggag ggaatttgag cttcaaagga 360  
 tgcaagagtc agagacaatc aaagaatact c 391

<210> 333  
 <211> 478  
 <212> DNA  
 <213> Glycine max

<400> 333

gacactatca aactgaagct cgtgtccagg aggatatcca tgtttctgta acattcatca 60  
 acaatgtgat ttgtgaatcc agaatgtgta caaaccttgt ttcctttccc attagaactc 120  
 cctctgccag agcctccttg gctacttctt cctcctctag aagtatagtt tggaggaaaa 180  
 ccacttttcc tataacatct gcccaactgtg tgattatctc cacaaacatc aagttgaaca 240  
 aattgagctt atctttcatt gactccgcta ccacattagg cggcaccacc gactcctttc 300  
 cctctagcat caaaatgtgc agcatcttat tccatgagct tctttgatag agtttacagt 360  
 tatgccccac ctttgctcgcg gtttgctgga accaattatc atttctttca tccacaatgg 420  
 atctccattt acatgcctct tgcctatgt atcttagaat attcatcata aacacata 478

<210> 334  
 <211> 469  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 334

cgcttctaca tttatcacct ttatagatgg atgttcgtga tatatgaata tttatttgct 60  
 tcataacaaa aataaagcat tggatccctt caaagtcttt aaggctgaag ttgagaacca 120  
 atgtggtaag aaaataaaaa tagtgagatt agatagaggt ggagaatatt atggcaaata 180  
 tactgagaat ggacaagcac ctggctcctt tgcaaagttt cttcaagaac ataggattgt 240  
 tgcccgggtac actatgcctg gttctccaaa tcaaatgggt gtggcaaaaa gaaggaaccg 300  
 aacattattg gacacggtac ggagtatgct tagcaactct gatcttccta aatccttggt 360  
 ggctgaagca ctaaagacgg cagtgtatat attaaactat gttccaacca aggctgtcca 420  
 aaagacacct tntgagttgt ttaaagggtg aaaacaaagt ttgaaacat 469

<210> 335  
 <211> 427  
 <212> DNA  
 <213> Glycine max



<223> unsure at all n locations  
 <400> 335

ctctcanagc cttgagacta cacatatcat aaacaacttt ctttatctcc tcttcagtat 60  
 atatttctcc ctaacatctc aatctctctt tgaacaaaa ctgtaaattt acctcttaag 120  
 caaaaagggt aataatctgc cacttcagtg aataaattcc tatagaaaga agtcaccatt 180  
 tcttctaaat ctatogaatt aagcaccocaa tagccctttt cattcaatag cctagcatat 240  
 aagtttagatt gctttcttaa nagagtgggt caatgaaagt aatgagaatt cttatctcca 300  
 aatttaagcc acttgacca agacttttga aaccacaaaa cttcttggaa caatatctgc 360  
 tctaactccc cacataaate ttntttagc cttaaattgt acttattatc cttaatcctt 420  
 caacttc 427

<210> 336  
 <211> 455  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 336

tgtcaccac tactagagga gaagccttta ggttgtttca tataaacctc ctcttctaaa 60  
 tcaccattaa gaaaagctat ttccacatcc atttggtgca actcaaggtc aaaatgagca 120  
 actaatgcca agattatacg aagataatct ttcttagata ctggagaaaa agtctttgtg 180  
 taatctatcc cttcttntg agtaaattcc ttagcaacaa gtcttgccat gtatctctca 240  
 atgttgccca atgaatccct ttgtgtctta aaaaccatt tacatccaat ggcctttgcc 300  
 ccattaggca tctctacaag gttccaaact ttgttactct gcatagaatt catctcatcc 360  
 ttcatgacat cataccatan nattgactct ttacaactct nggcttgatg caaaagttca 420  
 ggatcatttt cagctccata ttatagcata ttcta 455

<210> 337  
 <211> 429  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 337

agctntgaat gctctattca atggagttga caagaatata ttcagactga tcaacacatg 60  
 cacagtggcc aaagatgcat gggagatcct gaaaaccact catgaaggaa cctccaaagt 120  
 gaagatgtcc agattgcaac tattggctac aaaatttgaa aatctgaaga tgaaggagga 180  
 agagtgtatt catgacttcc acatgaacat tcttgaaatt gccaatgctt gcactgcctt 240  
 gggagaaaga atgacagatg aaaagctggg gagaaagatc ctcagatcct tgcctaagag 300  
 atttgacatg aaagtcaact caatagagga ggcccaagac atttgcaaca tgagagtggg 360  
 tgaactcatt ggttcccttc aaacctttga gctangactc tcggataggg ctgaaaagga 420  
 ggcacatga 429

<210> 338  
 <211> 455  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 338

tgcttgaagg gttgtacatg accaaatctt tagttaatcg tctttacgtt tagcagtctn 60  
 tgtattcggt taaaatgcat gaagataaat cagtacgaga acaattggat ttgtttaata 120  
 aactgattct tgatcttgaa aatatcgatg tcactattga tgatgaggat caagccttgt 180  
 tattgttggt ctctttgctt aagagttact ctcatttcaa agagacttta ttgtttggaa 240  
 gagactctgt ttctcttgat gaagtgcag ttgctctgaa ttcaaaggaa ttgaatgaaa 300  
 gaaaggaaaa gaagtcttct ataagtgggt aagggctgac agcaagagac aagaccttca 360  
 agaaagatag taaatctgat aagaagaagc ataagccaga taatcatatg aatgggtgaat 420  
 gaaacatggt caaatcaat tgtatcactg taaaa 455

<210> 339  
 <211> 417  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 339

agcttgtaat cgattacaac atttgtgtaa tcgattacca gacataaaaa ttcaaatttc 60  
 aagtctcaag agtcacaact cttcagaaac taattgtgta atcgattacc acatttatgt 120

aatcgattac caataaggaa ttttcgaaaa gtacacccaa gagtcacaat tgttcaagaa 180  
 gtttttgaat ggccatcaaa ggcctataaa taggtgactt gngatacgaa attctttaga 240  
 gttttttctg aacaacattg tcttatcctc tcaaaaccaa attgtcttat cactctcaaa 300  
 atattccttg gccaaaacac ttgcaaattc aataaggaat cttgatcgat cttcaattgg 360  
 aatatecttc tcttaaagag agaaaatgct tcttcttctt attcaaagag atctggt 417

<210> 340  
 <211> 457  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 340

tgtgagagct gaagacttct tcagacatgt agaactgggg aagactgaca acccaatagg 60  
 ttcaaacgtg actcaagtgt ttgttgatca actatcacga ctaaacacgt tgggtttgaa 120  
 cgctccccac actcaccctc gaggcactga gatccttata gtccttgagg gtactctcta 180  
 tgttggtatt gtgacttcca atcaagatgg aaatcacctc ttcaacaaag tgctgaacaa 240  
 ggggtgatgtg tttgtgttcc caattgggtc cattgatttc tgcacatg tgggatagg 300  
 caatgttgcc gccattgttg gtcttagcag ttaaaatgca ggaggcatta ctattgcaaa 360  
 tgctttgttt aaagctaata cacctatntc ttctaagggt ctcaccaaag cttgccaggt 420  
 ggacaagagc ataattgatt atcttgaana gcaatct 457

<210> 341  
 <211> 403  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 341

tctggtggga catcttgact tgctttccaa tctgacattc atcacanaat ctgccttctt 60  
 ctatnttcag attgggaatg cctctaacag cacttttgtc aaggaatttc ttcattgcctc 120  
 ttaagtgcag atgtccaaac ctttgatgcc atattctgac ttcattcttct ttggaggata 180  
 gacatgtgga ggagtagctg gtttcttggg gtgtccatag gtaacaaatg tcctttgatc 240  
 tgctgccctt cattagaact tcactcttct catttgtcac caagcattct gactttgtga 300

agtttacatt gaatacttca tcaaacagct gactgatgct gatcaagttt gcagtcagtc 360  
 ccttcaccag cagtactttg ttcagactag gaagtcctc atg 403

<210> 342  
 <211> 374  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 342

agcttgtagg gttaaagtct cagcattgtc acgtgctcat gcaacaattg ttagccgtgg 60  
 ctatacgaga catcttgcca aacaaagtca agttcacgat aactcgctg tgctttttct 120  
 tccatgctat atgtagcaaa gtgattgac cagtaatgtt tgatgagttg gaaaatgagg 180  
 ccacaattat actatgccag ttggagatgt attttcccc tactttcttt gacatcatga 240  
 ttcacttgat tgtgcatctg gttagagaaa tcaaagtctg tggctctgtt tatctacggg 300  
 ggatgtaccc gggttgagcga tacatgaaga tcttaanagg gtatacaaag aatctatate 360  
 gtccagaagc atct 374

<210> 343  
 <211> 451  
 <212> DNA  
 <213> Glycine max

<400> 343

agctatgaat tcttccacta ccacacatag tttacccttg tttggattat cttcaacctt 60  
 tcatatagaa atcaaaagac aaccaaccat tcttcaacac ccaaaagaaa gaaggaagga 120  
 aaatagactt cagatgtaat gtaaaaagaa atctctattg tagatctaag cttacacttt 180  
 tactcttttt ttgtagattt ttcaatccaa aatatgcctt tctgcaaag cctgaatata 240  
 tgatcacata taagatagat tatataaaaa caaattatc aaatgccata tgaatttaac 300  
 atcatttcca caagaaaaac cttgtggcaa tatcatgate agctaaatag taatatgcac 360  
 agccacataa caacaatgcc tctaaattat tttcatcttc cttgagaaga aaccagact 420  
 cagcaatagc actctcatc tctttatcag c 451

<210> 344  
 <211> 393

<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 344

tgccgccacg gagtnttccg actatgctct tgtgtggtgg aacaagctac ataaggagag 60  
agcaagaaat gaagagccaa tgggtgatac atggacggag atgaataaga tcatgaggaa 120  
gcggtatggt cgggctagtt actcaaggga cttgaaattc aagctccaaa aactaaccce 180  
aggcaacaag gtggttgagg agtattttcaa ggaaatggat gtgctcatga ttcaagcaaa 240  
tattgaagaa gatgaggagg taactatggc tcgatttctt aatgggttga ctaatgatat 300  
ccgtgatatt gttgagctgc acgagtttgt tgaaatggat gaattgcttc acanagcaat 360  
ccaagtggag caacaattaa aaagggaagg agt 393

<210> 345  
<211> 450  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 345

agcttatgac cattcgaatt tctcaagagt ttccgttggt caatttcgag cgtgtagatg 60  
agttatgtcc ccgaatcgga catctgtgtg aaaagttatg accattcgat tttctcgaga 120  
gcttccgttg ttcaatttcg agcgtctcga tatattatga ccccgatcg gacatctgtg 180  
tgaaaacgta tgaccattcg attttctcga gagcttccgt tgttcaattt cgagcgtcta 240  
gatgagttat gtccccgaat cgaacattcg agtgaaaact tatgaccatt cgaattttctc 300  
gagagcttcc gttgttcaat ttcgagcgtc tcgatatatt atgttcccga atcggacatc 360  
cgagtganat gttatgacca ttcgattttc tcgagagctt ccgcttggtc aattcgagcg 420  
tctcgatata ttatgtcccc gaatcgacat 450

<210> 346  
<211> 480  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 346

tggagctcgg ngctcttntg aagttectca gctgacttgt agtagaatga gacatattct 60  
 tccacccaag acttgatata atcccatata tctagcccat cagaagcata aggatagtcc 120  
 tccgatcaaaa gtcaaaactcc atggggagca gatggatcct taacagcaac tctcttgaat 180  
 taaaagcacc caaataacat tgattagcat aagagttata tcaagcctga agcctttttt 240  
 cttcttatgt cattgatgac tttttatata atgcattcat gtgccactac tctgtcaaag 300  
 ccatgaactg tcaaagccat catttaggat gaaacagtct ttgtctttcc aaaatctgaa 360  
 atacgagcca cttgagcatc tgctaaacga tatttcgtgc caccaatagt aacctcagat 420  
 gaaacagtct ccacatccaa cacaatataa tccaccaatt gtctactagt aagtaatgac 480

<210> 347  
 <211> 440  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 347

taaacattca atttcgagag tctcggtata ttacgggact ctatcagaca tccgagtaaa 60  
 aagttattgt cgtatgaatt ggcttatagc ataaacattc aactttgagc ctctcgatat 120  
 attacgggac tcaatcagac atccgagtaa aaagttattg tcgtttgaat ttgtcatag 180  
 gttcaaaaatt caatttcgag cgtctcgata tatttcggga ctcaatcaga catccgagta 240  
 aaaagttatt gtcttttgag ttggctcaga ggttcaacat tcaatttcga gcgtcccgat 300  
 atattacgtc actgaatcgg acatccgagg aaaaagttat tgctggttga atntgctctg 360  
 agcttcaaca ttatattacg agcgtctcga tatattacgg gactcaatca gacatccgag 420  
 atacaagtta ttgtcgtttg 440

<210> 348  
 <211> 431  
 <212> DNA  
 <213> Glycine max

<400> 348

agctctgagc caattctaac gataataact ttttactcgg atgtccgatt gagtctcgta 60  
 atatatcgac acgctcgaaa ttgaatgggtg aagctctagg cctattcaaa cgacaataac 120  
 gttttactcg gatgtccgac tcagtgacgt aatatatcgg gacgctcgaa attgaatggt 180

gaacctctga gccaaactcaa acgacaataa ctttttactc ggatgtctga ttgagtcccg 240  
tattatatcg agacgctcga aattgaatgt tgaacctctg agccaattca aacgacaata 300  
actttatact cggatgtctg attgagaccc ataatatatg gagacgctcg aaatggaatg 360  
ttgaacctct gagccaatcc aaactacaat aactctatac tcggatgtcc gattgagtga 420  
cgtaatatat c 431

<210> 349  
<211> 463  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 349

gatgcttcta gtgaagacag gaaacgcgat gaaattagaa aacacaatga aatgttaaag 60  
gcttctgaag ctgttgctga agtcagagca gaggtggata agctcgctga gaggggtgagc 120  
ctgcttctca tattatcttt ggttattgaa acataataac tggagctgag aatgaggata 180  
tgagtgattt tgatttgcaa gtatctgtct tggaagtggc tgtggatgga gggaccaggg 240  
tttctgacaa agagtttttg atgtccacag agttgcttat gaggcaattg ctgaaactgg 300  
atagtattga ggctgaagggt gaagtaaagc tgcagagaaa agctgaggta gtgtttatgg 360  
tggttagaat tataacttaa attctaacta attgcgtatt agntattgtg tttattttgg 420  
tatttacaaa atcccaccta ttagtaagtc atggacactg act 463

<210> 350  
<211> 427  
<212> DNA  
<213> Glycine max

<400> 350

tttccgacta tgctctcgtg tgggtggaaca agctacaaaa ggagagagca agaaatgaag 60  
agccaatgggt tgatacatgg acggagatga aaaagatcat gaggaagcgg tatgttccgg 120  
ctagttactc aagggacttg aaattcaagc tccaaaaact aaccaaggc aacaaggggg 180  
ttgaggagta tttcaaggaa atggatgtgc tcatgattca agcaaatatt gaagaagatg 240  
aggaggtaac tatggctcga tttcttaatg gtttgactaa tgatatccgt gatattgttg 300

agctgcagga gtttgttgaa atggatgatt tgcttcacaa agcaatccaa gtggagcaac 360  
aattaaaaag gaagggagtg gctaagagga gttttaccaa ctttggttct tctagttgga 420  
aagacaa 427

<210> 351  
<211> 352  
<212> DNA  
<213> Glycine max

<400> 351

aagcttatga ccattcgaat ttctcaagag ttttcgttgt tcaatttcga gcgtgtagat 60  
gagttatgtc cccgaatcgg acatctgtgt gaaaagttat gaccattcga ttttctcgag 120  
agcttccggt gttcaatttc gagcgtctag atatattatg accccgaatc ggacatctgt 180  
gtgaaaacgt atgaccattc gattttctcg agagcttccg ttgttcaatc tcgagcgtct 240  
agatgaatta tgtatccgag tcgtacattc gaggacaac ttatgaccat tcgaatttct 300  
cgagagctta cgtagttcaa tttcgagcgt ttagatatat tatgtccccg aa 352

<210> 352  
<211> 442  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 352

ngtgaatgta tatctatcat tcccaacttg caagtaaggt cttgaagttg ctccgtggga 60  
agtccttggt aagggatgta ttccgtggct ataagaccac tgtctaattn ttccttaata 120  
aaatgtcgat taatctctat gtgctttgtt cgatcatggt gaactggatt gtgtgcaatg 180  
ctgatggcaa acttattatc acaaaccagt cccataggaa cttcatattt tattttgagg 240  
tcataagta tgatattcat ccataacaac tcacaaacac cttgagccat agctctgctt 300  
ttgcaactga tcttgcaacc acattntgct tcttactcct ccacgttact aaatttccac 360  
ccaagaacat gcagtatcct gtggtagatc tcccatcaac aatngatcct gcatagtcag 420  
catcagtata tactttcatg at 442

<210> 353  
<211> 439



<212> DNA  
<213> Glycine max

<400> 353

agctatagca actctttctt tttgtttagt caaaacttct aatgctctta atctctcttc 60  
atctaaatca actaactcat ctgacatcat tttccaataa tggctgattg gaatgtccat 120  
ttgtttttgt accctggctg attgcaaagtg tatttcgacc ggaagtacag catcatgccc 180  
ataagtcagt cgaaatgggg tagtattagt tgattcctta ggagaatttc tacatgccca 240  
tagaacttga tctaacgttt tattccaatt tcttggcttt agggcaatgt gttttttaat 300  
caagttaatt acaatcttat tggctgcttc gacctgacca tttgcttgcg cgtaatatgg 360  
tgttgagggt aataatcgaa agccagtttt ttgggcaaag tcttgcatth ttcgtccagt 420  
aaaaactgaa ccttgatca 439

<210> 354  
<211> 423  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 354

tatcagaagg ggaatgagta aataccacct catgctgata ttatgaagggt ggcaaagtgt 60  
ttctttttgca agaagaaggg acacatgaaa aagaattgcc ccggattcca ganatggctt 120  
gagaagaaag gtaaataaat ctcatagta tgttatgaat ctaatatggt tagtggttaat 180  
attaacacct ggtggattga ttctggatct actattcata ttgcaaattc ttacaggggt 240  
atgcataacc taatgaaacc agtgggaagt gagcaaagca ttttatcagg caataagcta 300  
ggctcacatg tggaggccat tggaacttgc attctgactt taagtagtgg ctgtatttta 360  
aaattagaaa ggactttcta tgtanccaag ttttcccgaa acttgatttc tatttcaagg 420  
ctt 423

<210> 355  
<211> 378  
<212> DNA  
<213> Glycine max

<400> 355

atgacaattt gaattgctct agagattcca ttgttcaatt tcgagcgtct cgatatatta 60  
tgaatatgaa tcggacctcc gagttaaag gtatgaccat atgaatttct cgagagcttt 120  
cgttgttcaa ttctgaggcg ttgatatat tatacgctg aatcggaact ccgtgtgaaa 180  
agttatgacc atatgaattt ctccagagat tccgttgctc aatttcgagc gtctcgatat 240  
attatgcgcc cgaatcggac ctccgggtga aaagttatga ccatataaat atcttgagag 300  
cttctggtgc tcaatattga gcgctctgat atatatgctc cagaaattga cttgcgagta 360  
aaagtatgac catttgat 378

<210> 356  
<211> 303  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 356

tcggatgtnc gatntagggc natattatat ttagacactt gatattgaat aacagaagct 60  
ctcgagaaat tcgaatggc ataacttttc acacggatgt ccgattcggg cgcataatat 120  
gtcgagacgc tcgaaattga acaacggaag ctctcgagaa attccaatgg tcataacttt 180  
tcaactcggag gaccgattca ggcgcataat atatcgagac gctcgaactt gaacaacgga 240  
agctcccag aaattcaaat ggtcataact tttaactcag aggtccgatt ccggcgcata 300  
ata 303

<210> 357  
<211> 460  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 357

tcaaactatt tgcttccga gggaaattct ataaacagac ctcccatctt taatggagtg 60  
ggttaccact actggaaaac ccgcatgcaa atcttcatag aggcaataga tttaaattatt 120  
tggaagcca tagaacaagg accttatgtt ccctctataa tagccggaag tgcaacaata 180  
gaaaaaccta gacgagattg gactgagaaa gaaagaagat tagtacaata taatttaaag 240  
gccaaaaata ttattacata tagcttagga atagatgaat actttagggt ttcaaattgt 300

aaaagtgcta aggatatgtg ggatacacta caagtaacac atgaaggcac aacagatggt 360  
 aaaagatcta ggataaacac ttgactcgt gaatatgaac ttntaggat gaatgtaaat 420  
 gagagtatac aagacatgca aaagaggggc acacacatag 460

<210> 358  
 <211> 443  
 <212> DNA  
 <213> Glycine max

<400> 358

tygatactct gagtcacctg cagctgcagc ttgaattgat acatcatttg tgtaatcttt 60  
 taccagacac aaaagaaatt caaatttcaa gtctgaagay tcacaactct atagaaacta 120  
 actgtgtaat caattaccac atttatgtaa tcgattacca tgaagatatt ttcgaaaata 180  
 actcccaaga gtcacaactg ttcaagaagt ttttgagtgg ccatcaaagg cctataaata 240  
 ggtgacttgg gatataaaat tccttagagt ttttttgaac aacattgtct tctctctca 300  
 aaaccaaatt gtcttatcac tctcaaaata ttcttggcc aaaacactcg caaattcaat 360  
 aaggaatctt gatcgatctt caattgtaat atccttctct taaagagaga aaattcttgt 420  
 tcttcttatt caaagagaat tga 443

<210> 359  
 <211> 382  
 <212> DNA  
 <213> Glycine max

<400> 359

aaaatgaaga tacaataaaa tagtgagaaa atatatagat ttctaaatta tttaatatga 60  
 aatattcaaa atataaaata aaagtttctt gcccgtaaa caattctatt tataataatt 120  
 ctatttaatt cacataagat tacatttaat agaagataca catcatttaa acaaaaatta 180  
 aagtttatag atggacaact agaaactaag gaagctatag ctagctaagc tactacatat 240  
 taataaagaa caaaacatta caagaaaagg aaataattaa aaaaggtaga taaagaaaaa 300  
 agtgaggtga aagtttcaaa ttttgtgtgg ttccaggctt gcaaaccaat cctccagaaa 360  
 ggaattgttg agaaaaagta at 382

<210> 360

<211> 447  
 <212> DNA  
 <213> Glycine max

<400> 360

tataatatat tattacgctc gaaattaaac atcagaagct ctcgagatat tcaaattggc 60  
 ataacttttc acccggtatgt cggattatgg cgaatcacat atcgagacgc tcaaaattga 120  
 acaacggaag ctcttgagaa attctaattg tcataatttt aactcggatg ttcgattcag 180  
 ggcgcatcaca tatagaagcg ctcgaaaagg aacaacggaa gctctcgaca aattcaaattg 240  
 gtcataactt tccacactga ggtccgatta cggattataa tatatcaaga cgctcgaaat 300  
 taaacatcga aagctctcga gaaattcaat tggatcacac ttttcacacg gatgtgcaat 360  
 tctggcgcat aatatgtcga cacgctcgaa attgaacaac ggaagctctc gagaaattca 420  
 aatggtctta actcttcaca cggatct 447

<210> 361  
 <211> 461  
 <212> DNA  
 <213> Glycine max

<400> 361

agctttcaag aaacttgcaa aagttattca aaatgaaaaa gatttgaaaa ttaagacctt 60  
 gagaagtgat catagagggtg aattccaaaa tgaagatttt aaaacttttt gtgaagaaaa 120  
 tgggatttca cgtgattttt ctgctactag aacttcacaa caaaatgggg ctgcagagag 180  
 gaaaaatttg tgtttgcaag aactagcaag aactatgtta aatgaaacta acttagcaaa 240  
 ttatttttgg acggatgcca taagtacaac ttgctatgtt ctcaatagga ttttaataat 300  
 acctatttta aaatccacac cttgtgaact ttacaaagga agaaagccta acatattcaca 360  
 cttaagggtc tttggaagca aatgctttgt tttgaataat ggaaaactat accttgggca 420  
 agtttgattc caaactcaat gaagcactct ttttacgata t 461

<210> 362  
 <211> 590  
 <212> DNA  
 <213> Glycine max

<400> 362

gacactatag aaactaagct taacattgaa ttctgagcgt ctcgatatat tacggggctc 60  
aatcagacat ccgagtaaaa agttattgtt gtttgaattt gctcagagct tcaacattca 120  
attccgagcg tctcgatata tgacgggact caatcagaca tccgagtaaa aagtcattgt 180  
cgtttgaatt ggctcagagc ttcaacattc aatttcgagc gtctcgatat gtgacgagag 240  
tcaatcagac atccgagtaa aaagttattg tcgtttgaat gggctcagag catcaacatt 300  
caatttcgag cgtctcgata tattacgaga ctcaatcaga catccgagta aaaagttatt 360  
gtcgtttgaa ttgcctcag agcttcaaca ttcaattttg agcgtctcga tatatgacgg 420  
gactcaatca gacatccgag taaaaggat tgctggttga ttggctagaa cttcacaatt 480  
aatttcgagc gtcttgatat atgacggact caatcagaca tccgagtaaa agttatgcgt 540  
ttgaattgtc taaagcttca caataaattt gagcgtctcg gtttatgacg 590

<210> 363  
<211> 488  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 363

agctttgagc caattcaaac gacaataact ttttactcgg atgcctgatt gagggccgta 60  
atatatcgag acgctcgaaa ttgaatgtgg aagctctgag ccaattcaaa cgacaataac 120  
tttttactcg gatgtctgat tgacgccga aatatatcga cacgctcgaa attgaatgtt 180  
gaagctctga gcaaattcaa acgacaataa ctttttactc ggatgtctga ttgagtcctg 240  
tcatatatcg agacgctcga aattgaatgt tgaagctctg agccaattca aacgacaata 300  
actttttact cggatgtctg attgagtccc gtaatatatc gagacgctca aaattgaatg 360  
ttgaagctct gagccaattc aaacgacaat aactttttac tcggatgtct gattgagtcc 420  
tgtcatatac cgagacgctc ganattgaat gttgaagctc tgagccaatt caaacgacaa 480  
taactttt 488

<210> 364  
<211> 301  
<212> DNA  
<213> Glycine max  
<400> 364

gtaagctggt tgttaaacca aacttttagca atataaaaata gtttatgtta cacgggactg 60  
aagtgtccca aattgcaaac tgataaaaga caagaaatth tgtttgcagg tacttactcc 120  
ttcgtactcc ctccaaggag gcttccccat gaacatttct ataattgtac aacccaaact 180  
tcaaatatca acaacgaaag caacgtcaaa gctgttatct ttttgcacaa ccgcttgaaa 240  
aagctacatg tatgtggaat aagtgtttat agagaatgca tgagacatca tgaagtaaaa 300  
t 301

<210> 365  
<211> 600  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 365

agcttcatgc ttaagtatgt atggcaaaac tttgttactg ttgttcaaga catacaagtg 60  
agcttgtaac aaatgttcta cacttggagt gatcacatgc agtcctcttg aacccttacc 120  
accactctg tcttcatgcc gagactcgag aaggctaaca ggtttagcct tctctaagta 180  
ttctgaacaa aattcaatgg cttcttctgc aatgtacctc tcaacaatag atgcttctgg 240  
acgatataga ttctttgtat acccttttaa gatcttcatg taccgctcaa ccggatacat 300  
ccatcgtaga taaacaggac cacaacatth gatthtctctg accagatgca caatcaagtg 360  
aatcatgatg tcaaagaaag cagggggaaa atacatctcc aactggcaca gtataattgc 420  
ggcctcattt tccaactcat caaacttgac aggactaatg actttgctac atatagcatg 480  
gaagaaaaat cacaggcgag ttatcactaa cctgactttg tttggcaaga tgtcttgtat 540  
agcccaccac taacaaatgg ttgcatgagc acatganaat cgtgagactt ttaaccctac 600

<210> 366  
<211> 464  
<212> DNA  
<213> Glycine max

<400> 366

tgatgaagaa tgcttggaag ttttttagac tttgaatgaa aaccttgtat ctgccgcaat 60  
aatggttgta tctgactaga gtaaggagtt tgagttgatg tgtgatgcca acgactatgc 120

tgtgggtgca aatctaggac atcgacgaga caagatatcc catgccatat actatgtcaa 180  
 caaggctctg aataacgcac aattgaatta tgcgactact gaaaaggaaa tattgggtcaa 240  
 cgtctatgcc ttagagaagt ttcaatgctt tctgggtggc tccaaggctg tcattctcac 300  
 agatcatgca acaatcaa atcttcttac caaggcagat tcaaagccaa ggttgataag 360  
 atgggtcttg ttgattcaag agtttgacat cgtcttcaaa gacaagaaat gatctgagaa 420  
 tgtaatagct gaccatttct cccgggttagt gaatgaagaa gtga 464

<210> 367  
 <211> 256  
 <212> DNA  
 <213> Glycine max

<400> 367  
 caccggcgag cctttgaatt gcttcgatta agtatctatg agacacatgt ttcttaccat 60  
 accctttgac cagctcctga gcaagtaata tggtatcctg gatattccta ccaggaataa 120  
 aagctgaatg agtggttttc accacactat ttatcacatc actcagctctg ctagtcaaaa 180  
 tcttcgatgt gacctataa attgtgctac aacatgatat tggcctcatg tctttgatgg 240  
 tttttgcctc cgggga 256

<210> 368  
 <211> 368  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 368

ntgagcaa at tcaaacgaca aaagcttttt actaggttgt ttgattgagt cccgtaatat 60  
 atcgagacgc tcgaaattga atgttgaagc tttgagcaaa ttcaaacgac aacaactttt 120  
 tactcggatg tctgattgag tcccgttaata tatcgagacg ctcggaattg aatgttgaac 180  
 ctctgagcca attcaaacga caatcacttt ttactcggat gtctgaatga gtcccgaat 240  
 atattgagac gctataaatt gaatgggtgaa gctttgagca aattcaaaca acgataacct 300  
 tgtactcaga tgtctgattg cgtcccgtaa tatatcgaga cgctcgaaat tgaatgggtga 360  
 agctctga 368

<210> 369  
 <211> 420  
 <212> DNA  
 <213> Glycine max

<400> 369

agcttcaaca ttcaatttcg agcgtctcca tatattacgg gactcaatca gacatccgag 60  
 taaaaagtta ttgtcgtttg aatttgctca aagcttcaac attcaaattc gagcgtctcg 120  
 ttatattata ggactcagtc agacatccga gtaaaaagtt attgacgttt gaatttgctc 180  
 agagcttcaa cattcaattt cgagcgtgtc gctatattac gggactatat cagacatccg 240  
 agtaaaaagt tattgtcggt tgaatttgct cagagcttca acattcaatt tcgagcgtct 300  
 ccatatatta cgggactcaa tcagacatcc gagtaaaaag ttattgccgg ttgaatttgc 360  
 tcaaagcttc cacattcaaa ttcgagcgtc tcgctatatt acaggactca ctcacacatc 420

<210> 370  
 <211> 533  
 <212> DNA  
 <213> Glycine max

<400> 370

agcttttagag gactacacgt cttcgcttc agaggactac tagtcctcgc cttcagagga 60  
 ctacacgtcc ttgccatcag agggctacac gccttcacca ttagaggact acacgtcctc 120  
 gccatcacia gactacatgt cctcacaatc agagggcaac acgccctaac ctttagagga 180  
 ctacacgtcc tcgccgtcag aggacttcac gtcgtcacct tcagaggggt acaagccttc 240  
 accttttagag gactacacgt cctcgcaatc aggggggtgc acgccctcac cttcagagga 300  
 cttcacctcc tcgccatcag agggcagtac gccctcacct tcagaggact acacgtcctc 360  
 gccatcagag gactacacgc ctcaccctt agaggactac acgtcctcgc cattagagga 420  
 ctacacgcc tcgccatcag aggactacag gtccctccct ttaaaggact acacgccctc 480  
 ccttttagac gactaccgc tctcccttt aaaggcttc acgccctcc ctt 533

<210> 371  
 <211> 471  
 <212> DNA  
 <213> Glycine max

<400> 371



tacttttttc ttctctatag atggttttcag ttactatata ttttatgaca gtcttgagct 60  
 ggtcacaaaa ggtcaaacia tagactatgg aatgaacctg cactttgtga gcttaattga 120  
 tatgtcaagt tacaatttgt ctggaataat acctcccaaa atgttcagcc tcattggatt 180  
 gtactccttg aacttttccc acatcaaatt aacaggacaa ataccaaatg agattggcaa 240  
 cattgaaaac ttggagtccc ttgatttctc aacaaaccaa ctctgggggtg aaattcctca 300  
 aggcctttcc aatttgtcct ttcttgcttc cttagacctg tcatttaaca atttcacagg 360  
 caaaatacca tcaggcacac agctttaagg gtttcgtgca ctgagctata taggcaatcg 420  
 caatctttgg gacctccact ttcaaaattt tgctgcaggg tagtgaacct a 471

<210> 372  
 <211> 462  
 <212> DNA  
 <213> Glycine max

<400> 372

agcttatect taaataagaa aaagtatccc tcccattata atccaaagtt tgataaaaaa 60  
 aaaaaaagaa aaaacattgc tgtttcaata gcaatatect tacaatatct ctgcggataa 120  
 gctcctgaag tttaaacata atgcgttgac gagtgggtgat aggagtatct ttccatgaag 180  
 gaaaagcttg cttggctgca ctaactgcag ctttaaaactc ttcatatata gttaaatgaa 240  
 cttgagatac aacttcttgc gttgcctgag taaagataaa tattcaaatt actttttaca 300  
 taaaccatca caatgctaag aaaatttcaa gcaaatatca ttgaaaaaca tatcaactta 360  
 cgggatttat aacatcaatg attacagaac cctgagaatt tacaatttcc cccccaataa 420  
 aatttgagac ctttagctac ataccaataa aaaaggccat aa 462

<210> 373  
 <211> 262  
 <212> DNA  
 <213> Glycine max

<400> 373

agcttttatt ttctgatgag taatcgttct agtatgtctt gaatgagctc ctgaaaaact 60  
 tgatgtaaataaacgaattt ttgtccttcg tttccgagct atatatectc gtttaattct 120  
 ggtcattgaa taattgagac ttgatgaat aactatttga tttttcagct attcttttct 180

tcttactagt ctattaataa cacaaatgga ttcttccaat gtataaaaaa agaacttcac 240  
 aggtctttgc tactataacc tc 262

<210> 374  
 <211> 551  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 374

tgagttaagc aagcctaaag agggctcgagg tttagtactt tctgctatag catagaacac 60  
 aaaagcatga ttgattagag aaatatectt atatgcatca acttgtttgt tagaaatacc 120  
 caacactttt gtagaagcaa gtttcattgat gatgaaccaa gtaattttga tgatgccaaa 180  
 agcccaaattg attgattcaa gattgattca agacttcaag atcaagcatc aagaatccaa 240  
 tccaagattc aagattcaag agaagaaatc aagaagcaac aagtcaagac ttcatatagg 300  
 ataagtatta aaagaanttt tcaaaaacca aatagcacag ttttgtttta caaagaatt 360  
 ttttcaaatt ttctaagtta ccagagtgat tactctctgg taatcgattg cctgttatca 420  
 gtaatcgatt accagtgacc aatttagttt tcaaattgtt gcaacgttcc aaaatgattt 480  
 tcaaatagtg taatcgatta cactatatta gtaatcgatt acaagtgaat cggaacgttg 540  
 gaattcaaaa t 551

<210> 375  
 <211> 531  
 <212> DNA  
 <213> Glycine max  
 <400> 375

tgtaggcggt ggatcttctt catcaatgga gtcatttgct tcttgaatat catggcagcg 60  
 gaatagagaa ggaagaaaga tgattggaga cccacttca aggagatgat gagtcaagaa 120  
 gaagctcacc accacaggaa gccatggata agagcttgaa ggaaggcgaa gatgagtga 180  
 gggagaggga gagaaggggc acgaaatttt atgcctcaaa tgaggctctga actttgaagt 240  
 gtaattctca aatgatcaaa gttcaaaata atgcacacac atggcctcta tttatagcct 300  
 aagtgtcaca caaattgga gagaaatttg aatttctatt caaatttcac ttgaattga 360

aattgaattt gtggagccaa aatttcaata attatgatta atggaattta gatatggttc 420  
 agcccactaa tccaagatca agtccaagat tcttactaa gtgtgcttag gtgtcatgag 480  
 acatgtaaaa catgaatgac atgcacaagt gtgactatat gatgtggcaa c 531

<210> 376  
 <211> 354  
 <212> DNA  
 <213> Glycine max

<400> 376

agcttgttgg agagagcaat gtcaatattg tcatcaactt cagccctaata agttgggcct 60  
 ggaaactgac cgttgattcc catcagaacg tgttccaagc aatctgggtt tctgatcatg 120  
 tactccacat caaacttgta gtgtctcact attcctccga ttgacaattc taccaaacc 180  
 aaccatatta tgcacccaac aaaaagagct ttgaagctca ttcttaatta attttgatca 240  
 gagaaagcct aattagcaat ataacaggaa ggtatcaagt agtagaacga agctattgat 300  
 gaacaaattg aaagaatagg tatagaggat cgaggatttg gattgctggt accc 354

<210> 377  
 <211> 248  
 <212> DNA  
 <213> Glycine max

<400> 377

ctcagtcct gagaaactga ttcccagaag acaacaggga gtgtttattg ctgaaaacc 60  
 tagccttgca acaagttcta gggaagtaga caaggagatg gacaagaaaa tccgcagtat 120  
 cgtgagtagc attttaaaag acgcctctgt tcctgaagct gatgaagatg ttccaacatc 180  
 ttccaccccg aatgtttctg tgcctgatgt tgagaaagat gttccaacat actttcggtc 240  
 caaatgct 248

<210> 378  
 <211> 333  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 378

agctttgagc anattcaaac gacaataact nttgactggt ttttccgatg tgccccgtag 60

gaaattgagc cgctcggaat tgaaaaacgg aggccttgag aacaaactaa cgacaataac 120  
 ctttaactcg gatgtctgat agaaccctgt aatatatcaa gacgctcgaa attgaaaacg 180  
 gaagctctaa taaaagtctt acgacactaa cttttgactt cgatgtccga ttgagccccg 240  
 taatatatcg agacgctcct aaacgaaaac agaaactttg accaaattct aacgacaata 300  
 acctttgact tcgatgtccg actgcgcccc etc 333

<210> 379  
 <211> 395  
 <212> DNA  
 <213> Glycine max

<400> 379

tgactagttt gcaaaatggc atacttgaaa tatatatgtt ggatcaagtg gcctcggaat 60  
 aattaagaag ggggggttga attaattatt gatgtgcctt gactaattaa aaatctatcc 120  
 ttcttaatgt tactagattt aattaagttt ttactacaaa gttaagaaag taaagaacag 180  
 taattgaaac ttaacaaaaa gtaaaaacga taattaaaag agcacaacga aaattaaaag 240  
 tgtagggaag aagaagacaa acactataat ttatactgg ttcggaaca acctgtgcct 300  
 acatccagtc cccaagcgac ctgcggtcct tgagatttct tttcaacctt gtaaaaacct 360  
 ttacaagcaa agatccacaa gggatgtacc cctcc 395

<210> 380  
 <211> 474  
 <212> DNA  
 <213> Glycine max

<400> 380

tgttgattta agcacagata atccatcaat tgcttctgat ggtttagcag catttcagcg 60  
 tgtaagcaaa ttgacaagaa aagtgaacct ttttgaaaag gattatatct tcatcccat 120  
 aaactatagt cttcactgga gtttgaatgt catttgtcac cctgctgaag tcatgacatg 180  
 ctacagagat gaagaaacta aaggatctcc caaagaagct tgcattctgc acatggattc 240  
 ccgaaaagga attcatcaag atctacacaa tgttttccaa agttatctat gtgaagaatg 300  
 gaaagagagg cacaacaatg tgagggatga tgatgtttct tctatatttt tacatcttcc 360  
 attcgtgcc a ttgagctgc ctcagcaaca aaatgcatac gattggggga tctttttgtc 420

cactatgtgg aacgttttct ggacatgctt caatcaactt caaccgtcca tgat

474

<210> 381  
 <211> 647  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 381

ccgcaagctt cctgcacaat gactatatta ttaagatttg ttctcaagct ggtataatct 60  
 tatcatgctt cagcgagtca gtggcactta cactaatcaa gtgtcaagta ccaacgaagc 120  
 atcagtaagg aaagttagtt tacaataatt tatctccaca agtaatactg agttctggca 180  
 acaaagaaaa accataccaa gaataaatta gaaaaggcac aaaacagtct accttgcac 240  
 aggaattcca tggcagatta cttcattaac tgacctgtta gataaagcaa atttcattct 300  
 taacatatac catggcaata agagaaaaat atgacattac agaaggaaag tacctacgtg 360  
 cagcaagatt tagggaagaa aaggttaattg agaggatg gatatcctcc tgaaaaagta 420  
 aaaagtcaga aaaaaattca ttaccaatga ccatttgtaa tagccatatg acaatgacat 480  
 catgaaactc aatgaaccat catttgaag aggaattata acaaagttag gaagcaccct 540  
 ctctgtaatg ctcaaggctt ttttttgact ttttcaaatt ctggtaagca gatagcagcc 600  
 ttgatataca ttntggtatt tttttggccc ccccttctct gacccat 647

<210> 382  
 <211> 344  
 <212> DNA  
 <213> Glycine max

<400> 382  
 cttttctagt tagagaccaa cgtcttgggg ctaatgtatg atctgctcaa ggacctacag 60  
 gtttaggtaa atatctaagc cggtccccga caggagaagt tatttttggg ggagaaacta 120  
 tgcgtttttg ggatttgcgt gctccttggt tagaacctct aatgggtccg aatggtttag 180  
 acttgagtag actgaaaaaa gatatacagc cttggcaaga acgccgatct gcggaatata 240  
 tgactcatgc ttctttaagt tccttaaatt ccgtgggtgg cgtatcttca gagattaatg 300  
 cagtcaatta tgtctctctc agaagatggg tagctacttc tcat 344

<210> 383  
 <211> 187  
 <212> DNA  
 <213> Glycine max

<400> 383

agcttgggtct aaaattcccg aaaaatttagc tttttatgat tatatcggaa ataatccagc 60  
 aaaagggggg ttatttagag caggttcaat ggacaatgga gatggaataa ccgtcggttg 120  
 gatacgacct tctgtgtata aagaaaaaga tgggcatgaa ctctttgtac gctccccccc 180  
 ctcccttt 187

<210> 384  
 <211> 546  
 <212> DNA  
 <213> Glycine max

<400> 384

ttctccacta agttgcctga tgcctgaaat gtcttttctg atggcagtggt tcctagatgc 60  
 agggaagaat ttctccaaga acaccctctt aaggtcatcc cagctgaaaa tggacctggg 120  
 agcaaggtag tatagccaat ctttggccac tccctctgga gaatgaggaa aagtctttag 180  
 aaagatatga tcttcttggga catcgggggg cttcatgggtg gaacaaacaa tatggaactc 240  
 cttaagatgc ttatgaggat cttcacctgc aagaccatga aacttgggca gcaaattgtat 300  
 tagtccagtc ttgagaacat atggaacacc ctcatcagga tattgaatgc acaagctttc 360  
 ataagttaaa ttaggtgcaa ccatctccct aagagtcctc tcacgaggtg gaggggtgagc 420  
 catgtttctaa gtaggaaaat tagtagtgga atgctcacia ttagatattc agaatacccc 480  
 ttaacagaat gctcaaaatg cacagaatga ccaggatgca cactatgcct aactaatcta 540  
 tgaaag 546

<210> 385  
 <211> 435  
 <212> DNA  
 <213> Glycine max

<400> 385

tgccttgccc cttgatatat ttgagggact catggtcact atgaatgaca aattccttgg 60

gataaaggta gtgttgccat gttttcaaag cccgtactaa ggcatacaac tccttatcat 120  
 aagttgaata gttaagggtg tgaccactta acttttcaact aaaataagca attggatggc 180  
 cttcttgcat caacacagcc ccaatcccaa catttgaagc atcacactca atttcaaaag 240  
 atttttgaaa gtttggaac gcaagtatcg gggcattagt aagcttttgc ttaagaacat 300  
 tgaaagcttc ttcttgtttc tctccccatt tgaaaccaac atttttcttg agcacttcat 360  
 tgagaggtgc tgccaatgtg cttaaatcct tcacaaatcg tctattaaaa cttgcttagc 420  
 catgaaaact tccta 435

<210> 386  
 <211> 323  
 <212> DNA  
 <213> Glycine max

<400> 386  
 agcttcttac aagagactaa gaaatttttg acgaaatfff tttagaggaa agatcttggg 60  
 gaagcctcga tcttgcgga gctctttttg tattaggaat caagatatta agagatcgct 120  
 ctttaaggat cctaagggtg tcacaaaaga gttatatcga taaggctcta gatagattca 180  
 acatgaaaga tagtaaacca ggagatatcc cgatagctca aggagacaaa tttagtctca 240  
 aacaatgccc caataatgac cttgaaagaa tagagatgca caagattctt tatgaatcaa 300  
 cagttggaag tctactgccc cct 323

<210> 387  
 <211> 504  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 387

taagaccatt tctaattgggt tagataatnt atttttaatt gtttatecta tgctaattag 60  
 tccttataat atcacattat aattaaataa tttatatatt tcttgtttca ataagtaatt 120  
 cttaaataat aagaaaatat tttttctcat aagtaattat tattatatat atataattat 180  
 aggttaattt taaacaattt aatgtgacat ataaataatc taccatagtt aaaaaatta 240  
 acaattatat ctaaaaataa accaatcggt aaataatgag cattgaagat gctctaagat 300  
 aggaatactc ccataaataa taaatcatgc cattatgtta ttctgtatg aatatcta 360

catgtttctt tttttactcc ccaattttat tacctatata tcctttgaaa aatatactat 420  
 aaatattttg atgtattttt taagagaaca aaggctcctg gtttaacaaa aagccaagac 480  
 aggggaatta aggccattta aaaa 504

<210> 388  
 <211> 293  
 <212> DNA  
 <213> Glycine max

<400> 388

atgcaagctt ttaactggga aatgctccaa gaaacactat cttctttttc cgattctctg 60  
 gctgcttget ccagtaaagc acaagaagaa atatgagcac cagcagattg ccccattaga 120  
 taaatcctat tacatagtaa caaaaaaag gaaaagataa atctcagttg aatgtctaaa 180  
 tatatgatga aaaggaatct tgtatcatag tagcacgcca cctattlaggg tcaactccat 240  
 aattagctat gttgttgatg atgaacgaaa ttccccgcga agtatcattt acc 293

<210> 389  
 <211> 605  
 <212> DNA  
 <213> Glycine max

<400> 389

taagcttgca aactagcttg tttaaataat aataataata ataagaataa ttattattat 60  
 ctataccatt tttatggcat tatgaatgac agtatgaagt agcataatgt gcttagagag 120  
 ttcacttgca ttggaaaatt ttcaaaaaga aaaaaactta agttaaaagg ataatgcaac 180  
 cagattaata cttccaaaga aaaaaatgtt ttgtaaaaac attttcagac aatttaaata 240  
 tttttatttg actatattag tataaatcat ctctaatacca tatattttta atattatggt 300  
 cttttttttt cattttcttt tgatatactt tgtgttttaa taacttgaat tcaatatgat 360  
 tttgtttatc aattattttt ggatttgtgc attacttata cgaaatttta taagtttctt 420  
 cttttgggta gtatgttagt atttcacgag gttttaaaat aattaattga ttaaagacgt 480  
 ctttaagcag actcttaaata aggttcgtag gccgataagc cgagtcgagc ctttaaaaaa 540  
 agctatgaca gataatgagt cgaactcaaa tcttacgtag ttaacttaag tcaaactcca 600  
 atcta 605



<210> 390  
 <211> 419  
 <212> DNA  
 <213> Glycine max

<400> 390

tgccctgaaac tatatgagat ccctttgtcg ttgccttcca actagggtta agcttaagga 60  
 gaaccaatc tcctatctgg tagttcactt cacgacgttt cccatcagct tggcttttca 120  
 tagcagcttg ttccttagaa gcttatttcg aatagcttgg aaagtgttat ccctatcagt 180  
 taacatctct tcaacggcct caatgttcga agaccctgta atatattcag gaaagttaaa 240  
 gggttttcgg ccaaagggtga caccatactg attggtcca gttcccgcat tccatgaagt 300  
 attatgggac cattcgaccc acgggaggag ctatcccccc atgcttggcc cagcatggat 360  
 gaaggctcgc aaatattgtt caattatgca attcaaaacc cttgtctgtc catcaattt 419

<210> 391  
 <211> 573  
 <212> DNA  
 <213> Glycine max

<400> 391

agcttccaag aatcaagatc aagattcaag atttaatat catgaatcaa gagaacactt 60  
 aatcaagata agtatgaaaa agttttttca aatactaagt agcacatgga tttttctcaa 120  
 aatctgttta ccaaagagtt tttactctct ggtaatcgat taccagatta ttgtaatcga 180  
 ttactagtag cgaaaatggg tttaaaaaaa cttttaactg aatttacaat gttccaattg 240  
 atttcaaat gttgtaatcg attacaatgt tttggtaatc gattaccagt gtgcttgaac 300  
 gttgaaattc aaattcaaat gtgaagagtc acattctttc acaaaaaagc tttgtgtaat 360  
 cgattaccag tgaaagtgtt tgaacaaatc aaaagatgta actttttaaa tagtttttga 420  
 ctctttcaaa ttggctttta gtttttctaa aagtcataac tcttctaattg gttctcttga 480  
 ccagacatga agagtctata aaaacaacgc tttgttttgc attcttacag ctattcaatc 540  
 caatcaatct tatacaatcc tttacaagcc ctg 573

<210> 392  
 <211> 453

<212> DNA  
<213> Glycine max

<400> 392

tccaccttct atgtactcat aaatcagtat cttctctgaa ccatttaggc accaaccgta 60  
gagtgtgacc aggtttggat gtggccaacc aaagccatga ccactcagaa cctccatttc 120  
agccttgaat tccttctcac cctcaagacc ttccttttga agcttcttca ctgccacttg 180  
tctgccatct gaaaacactc ccttgtacac tgttccaaac cctccttttc ctataactct 240  
gtcctctgag aagctgctag ttgctttcag aatgtcggca tgtgtgaaaa ctgtcttggt 300  
cagacggata accttaactg tgtcagacat ccatgatgag gatccggagc tgctggaatc 360  
atgccattgt tttgtatccc tcaagaggta tcttggttcc tctgaagggc ttttcaccga 420  
tacacagact aggatcgtaa gaagcccgat act 453

<210> 393  
<211> 548  
<212> DNA  
<213> Glycine max

<400> 393

agcttgtgca tccaataccc tgatgaggat gtcccatttg ttcttaaaac tagacgaatc 60  
catttgcttc caaagtttca tggccttgca ggtgaagacc tgcacaaaca tctgaaagaa 120  
ttccatattg tctgctacac catgaaaccc ccagatgtcc aggaggatca catatttatg 180  
aaggcctttc ctcatctttt agagggagtg gcgaaggact ggctttatta ccttgcctca 240  
cgggccatca cgagttggga tgacctcaag agagtattct tagaaaaaaa atttccttac 300  
ttccaggacc acggatcatca gaaaggatat ttcaggcatt agacaactca gtggagagag 360  
cttgatgaa tactgggaga gatttaagaa actatgtgcc agttgccctc accactagat 420  
ttctgagcag cttctcctcc aatattttta tgaaggactc aataacatgg agaggagtat 480  
gatagatgct tgccgtggtg gagctcttgg agacatgacc cctgctgaaa ccagaaattt 540  
aattgaga 548

<210> 394  
<211> 230  
<212> DNA  
<213> Glycine max

<400> 394

tccattattc aaaagttgcc tgtgcttctt caaccctggg ctgttaatgg taatttagtc 60  
cccctcggac aaagaaaact gatgtgtaat gatgactgtg ctaagttaga gcggaaaagg 120  
gttcttcgag atgcttttga gattaccgct ccaaactctgg attcactcca ttttggtgag 180  
aattcgggtg cttctgaatt gctggctgac atgttgagac gtgattctaa 230

<210> 395

<211> 466

<212> DNA

<213> Glycine max

<400> 395

tcaactgtga agctatcttc gtatcgagca tggccaaata tgcattgactt tcggtttgcg 60  
ctttacaagt tgccattgcg gggtcccaaa gatgaccaag aatatgctgg tttatgggga 120  
ggaacttttg gttggcctcc tggaaagcct tctgaagaca agcctggaaa ggctttattc 180  
tttcttctgc tcttttatga ggagttccag ggacaacagc ttcttattgc aacaaaaatt 240  
ttggaaggca cacactatgt gttacatcct aacgtgtcag caatgtttac agcaaatatc 300  
aatgatcctt catccgaacc ctttccttgg gacactgatg cagactcggg tccagtgaat 360  
atcaagcaag ctttcgtggg agaggggtatt gcaagtgggt acgggttcag ataccctgga 420  
tcaaagcctg gttccctctt tgtttttagaa aatgggtatcc ttgcct 466

<210> 396

<211> 430

<212> DNA

<213> Glycine max

<400> 396

taaacattca acttcgagcg tctcgatata ttacgagtct caatcaatca tccgagaaaa 60  
aagttattgt cgtttgaatt tgctcagagg ttcaacattc aattttgagc gtctcgatat 120  
atgacgggac tcaatcagac atccgagtag aaagttattg tcgtttgaat tagctcagag 180  
cttcaacatt caatttcgag cgtctcgata tgtgacggga ctgaatcaga catccgagta 240  
caaagttatt gtcgtttgaa tttgctcaaa gggtcaacat tcaatttcga gcgtctcgat 300  
atattacggg actcaatcag acatccgagt aaaaagttat tgcgtttga attgggtcat 360

agcttcaaca ttcaatttcg agcgtctcga tatatgacgg gactcaatca tacatccgag 420  
 tgaaaaggta 430

<210> 397  
 <211> 461  
 <212> DNA  
 <213> Glycine max

<400> 397

agcttagagc caattcaaac gacaataact ttttactcgg atgtctgatt gagtcccgtc 60  
 atatatcgag angctcgaaa ttgaatgttg aagctctgag ccaatccaaa cgaccataac 120  
 tttttactcg gatgtctgat tgagtcccgg aatataacga gacgctcaaa attgaatgtt 180  
 gaagctttga gccaatccaa acgacaataa ctttttactc ggatgtctga ttgagactcg 240  
 taatatatcg agacgctcga aattgaatgt tgaagctctg agccaattca aacgacaata 300  
 actttttact cggatgtctg attgaggccc gtcatatatc gagacgctcg aaattgaatg 360  
 ttgaagctct gagccaattc aaacgaccat aactttttac tcggatgtct gattgagccc 420  
 cgcatatatc gagacgctcg aacatgaatg ttgaacctct g 461

<210> 398  
 <211> 553  
 <212> DNA  
 <213> Glycine max

<400> 398

tgcatccatg tgcactagtt attgtattat tgaagagaaa gaataaattt gaggtagaga 60  
 ctacagagtg tagcatacat gtccacttgc tgtttctgac agttggcggg tccataaatt 120  
 tgaaagattc aatgaaccat ctttcagaga cattgctatt cccattgttg cagctgagtg 180  
 tgatgataga ttgctggaat atgaagcaca agaaacatta aaaggattgc taaaacaggc 240  
 aaaagagtat gttcaatttg atttactgaa tacaaaatta cccaccgagt tgtttgcacc 300  
 ccgattagtg cacgcagacc agccgaggcc acaacctcta ctgacgaaac ttctgaaagt 360  
 tgatgcctaa acacagcagt agcagctcca ccaccttcac ctccattcac tgctaaatta 420  
 cctccaatcg taacagcatt gtgctttgat aactgagaac tgaattcact tgtcatagcc 480  
 attctgatac tcataaacgt aataaaatac acaaacaatc agaccaaaaa caaagaagtg 540

cttaacacat taa

553

<210> 399  
<211> 357  
<212> DNA  
<213> Glycine max

<400> 399

agcttctata gaaggttcat tcttaatttc tctacaattg catcacctct caatgagctg 60  
gtgaagaaga atgtggcatt taccttgggt gataaacaag atcaagcctt tgctttgctc 120  
aaagaaaagc ttactaaggc acctgttcta gctcttcctg acttttctaa aacttttgag 180  
ctagaatgtg atgcctctag agtgggagtt ggagttgtat tgttacaagg tgggcaccc 240  
attgcttatt ttagtgaaaa acttcatagt gcccccttc actaccacac ctatgataaa 300  
gagctttatg ccttaataag agcccccaa acttaggaat attaccttgt ttccaag 357

<210> 400  
<211> 400  
<212> DNA  
<213> Glycine max

<400> 400

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tcttacgaaa ggggggtgaa ttaagatata acaaactatt tccccatta aaaatttatt 120  
ttactttcta ttcaagttat aaattccctt aaaaatgaac ttcttaaata ttgattcaaa 180  
taaagcaatt tgaatatgaa tataaaacaa taataataa aggagtttaa gggaagagag 240  
attgcaaact cagacttata ctggttcggg cactcccttg tgcctacgtt cagtccccaa 300  
gcaaccgct tgagagttcc actatcttgt aaaagcctat tacaagatct gaaccacaca 360  
aggacaaccc ttcttttggtg tttagatttc ttacaacaa 400

<210> 401  
<211> 111  
<212> DNA  
<213> Glycine max

<400> 401

agcttgcata actgaaacca tcttttgggg tattttattg gtaaaaacag cagcaccttc 60

aacagaattc attgaataac cacatggctt aaaagtaaag tcacaaatct c

111

<210> 402  
<211> 387  
<212> DNA  
<213> Glycine max

<400> 402

aatactaagc tcgcttctac atttaccac tttatagatg attgttcgtg atatatgaat 60  
at ttatttcgc ttcataacaa aaataaagca ttggatccct tcaaagtctt taaggctgaa 120  
gttgagaacc aatgtggtaa gaaaataaaa atagtgagat tagatagagg tggagaatat 180  
tatggcaaat atactgagaa tggacaagca cctggctcctt ttgcaaagtt tcttcaagaa 240  
catacgattg ttgcccggtg cactatgcct ggttctccaa atcactatgg tgtggctaaa 300  
agaacgaacc gaacattatt ggacacggtg cggagtatgc ttagcaactc tgatcttcct 360  
aaatacttgt gggctgaagc actaaag 387

<210> 403  
<211> 426  
<212> DNA  
<213> Glycine max

<400> 403

tgatgaagag tgcttgacag cttttcagac cttgaatacc agtctcgtgt ctgctcccat 60  
aatagtgaca cctgactgga gtaaagagtt tgagctcatg tgtgatgtcg gtgactatgc 120  
aatgggtgca attcttgac aacagcaaaa caaggtattc catgccattt attatgccag 180  
caaggtccta aatgatgcac aactgaatta tgccaccatt gagaaagaaa tgctcatcat 240  
tgtttatgcc ttagagaagt tcggatccct atttggtggg ctccaaagtc atcatcttta 300  
ctgatcatgc agctattaag tatcttctaa cgaagaccga tttggagcca agggtaatca 360  
catgggttct tctgattcaa gagtttgata tagcgattaa agacaaatag ggctaagagt 420  
aaagtc 426

<210> 404  
<211> 609  
<212> DNA  
<213> Glycine max

<400> 404

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ccgattgata aatgagaaag agagctttct tgtctctctt tcttgactcc ttcaacgtct 120  
cctttacacc ttggetttagc gaggettcac cttgttcttc gaagccattc tctatgatat 180  
cccacacatc ttgagctcct agtagcgcc tcatcttgat actccaatta tcatagttgt 240  
tctttgtgag catcggcatt tggaaaggaa aacctccatt cgccatcttt tgaggatctt 300  
gaagctctga taccactttg ttggaaataa ggctttttat gtttaggaaa agtggttagg 360  
aatattggag actttgaata ggaaggagaa ttctctatgg aggagagAAC tttgtatttt 420  
tgcttgatac aaatgtgtag gattacatct ctatttatac tactctaagg agaactctag 480  
acacactaat tctagagagt tctcaactct agagatccaa agaggattct agagaatatt 540  
aaaaccataa gaaatatcta gacacttcaa aactacaaa aattctctag aacatgacct 600  
ataattact 609

<210> 405

<211> 353

<212> DNA

<213> Glycine max

<400> 405

gcttaaggag accactttga actttttcac gaacaatatg gcaatctaag tcaatgtgtt 60  
tagtacgctc gtgaaaaact tggttaaaag agatctggat agcgattgat tgtcacacca 120  
aaaattgggg ggtgaaccta ccaaacacgt aaatcttgaa ggagatatgt gagccattgg 180  
agctcgcaag tagtgaagc caaggctcga tactcagctt cggaggagct gcgagacaga 240  
gtgggctggt tctttgagca ccaagaaata atggaattgt cgagatagac ggagaagccg 300  
atgatggaac gtcgagtgtc atgacaaccg gcccaatcag aatcactgaa tgc 353

<210> 406

<211> 577

<212> DNA

<213> Glycine max

<400> 406

tcttcagaaa cgtggcattt gtgtgcaata cacaatgctc gggtcaccac aacaaaatgg 60

tgtatcagaa aggtgtaata gaacattaat ggatatgatt aggagtatgt taatcaat 120  
 gactttaatc atatctttgt ggatgtatgc cttgaaaact gtcattgtatt tgttgaatag 180  
 gattcctagt aaggcagttc caaagacacc tttgaactgt ggacaaatag gacaccta 240  
 atgaggtacc tgcattgttg ggggttgcaa gcagaaataa ggatttataa tctgcaagaa 300  
 agaaaattgg atgcaagaac aatcagtggc tatttcatta gttatccaga gaaatcaaag 360  
 gggatatatgt tttattgtcc taatcataat atgagaattg tcgaaactgg aatgcaaga 420  
 ttcattgaaa atggtgaaat cagtgggagt acagttccac gagaagtgga aattaaagaa 480  
 gttagagtgc aggtcctttt tgcttgggcc tctaacagta aggtgattgc tcttttaatt 540  
 ggtgttgcatt aattaatgaa gaggagcaac acattaa 577

<210> 407  
 <211> 331  
 <212> DNA  
 <213> Glycine max

<400> 407

gtacatatgt tctcaacacg agaacgtttg aggtatctaa taagcatgtc tgcaagttgg 60  
 tcaccggagt tgacaaagtc aatgatgatt tctctgaga gcaccttttc tctcaciaag 120  
 tgacagtcaa tttctatttg gttagtctgc tcatggaaga tcggatttga tgcaacgtgg 180  
 agagcaactt gattgtcgca tagtatcttg agtgtctcca aatttttagtt ggtggagaaa 240  
 ttgcctagcc atgtaacctt ggatgcaata gctgccatag catgacactt agcttcaaca 300  
 ctggatatag caattgtttc tgcttcttac t 331

<210> 408  
 <211> 136  
 <212> DNA  
 <213> Glycine max

<400> 408

atacgcctga atcaacatcc gtgtgaaaag ttatgaccat ttgaatgttt cgaaagcttc 60  
 ctttgttcaa tggcgagcat atagacataa tgagagcccg aatctgacca ccgtgtgaaa 120  
 agttatgacc atttga 136



<210> 409  
 <211> 448  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 409

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 ggctgatcat tagaattgat gaactcagtg gtaatctcct tggacaataa tttttctcga 120  
 atgaagtgac aatcaatctc tatgtgcttg gtcctctcat gaaagactgg atttgatcca 180  
 atgtggaggg ctgcctgatt gtcacaaaat aacttcattc gtgtaacttc acaaaacttc 240  
 aattcttgaa gaagttgctt aatccacata agttcacatg tgaccaaagt catagatcgg 300  
 tactcagcct ctgcgctgga tcgagcaaca acagtttggt tcttgctttt ccaagagata 360  
 agatttctc caatgaaaac acagtagcct gaagtagatn tcctatcaat aggacaacca 420  
 gcccaatctg catacaatat ccagatac 448

<210> 410  
 <211> 445  
 <212> DNA  
 <213> Glycine max

<400> 410

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 gattgacttg cctagttagt ataatgtaag tgccactttc aatgtgtctg atctatctct 120  
 ttttgatgca gatggagggg ctttgtatctt gaggacaaat ctttttcaag aaggagggag 180  
 tgatgatgac ataaccaagg gcaaggacca tgaagcactt gaagggccca tgaccagagg 240  
 cagacttaaa caagcccaac acgtcataga gacaaggctg gtcatttgta tagctaccat 300  
 tgatgatgat tgaaggccca agtggagaaa gatgaatgcc cacaggcata ggcactacca 360  
 agactactaa ttgttgctga acgccaagt taaataagtt tttagttata atttattttt 420  
 attgtaactt tggcccaaac tgttt 445

<210> 411  
 <211> 375  
 <212> DNA  
 <213> Glycine max

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cagtttcatg ctccatgtag gtgaattggt ctgttttatt ttctgtggag tttttttcta	120
tttacttggg gcattggttt tcagttatgt caacacttgc attgcttttc agtttcatgc	180
aaccatggca tgatttacat tgcaaaattg aaggccgtgc tgcatatgat atactcacta	240
attntgagca gcgctggaga aaagccacca aatggtctga gatgggtcgg aaactcaaga	300
gagtatctaa cttgaacgat gattctttga tcaagataga acacatttct tggattctta	360
gtcttttcgaa ttact	375

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<223>      unsure at all n locations
<400>      412
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<210>	413
<211>	452
<212>	DNA
<213>	Glycine max

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tgtttgcaaa ttaaacaaat ccttgatatg tttgaaacaa tcctctaggc aatggaataa 120

gagatttggg gaatttatgg ctcatataaa gtttcataga agtcaccatg atagctgtgt 180  
 ttacttcaaa ttttcttcta aagctgagtt tgtgatattg ctactatgtg ttgatgatat 240  
 cttgatagca agtaataaca agagtgaagt tgaaaaattg aaatgtagga tttgggaaca 300  
 actaggagga tattgggaat agaaatcaaa caggacagaa aaaggaaatt gttatatattg 360  
 tcttaagagt tatatatcag aaaagttctt gaaaggtttg gaatgtcaaa ttccaaacct 420  
 gtaactactc ctatgtctta gcagtttaag ct 452

<210> 414  
 <211> 450  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 414

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 agcaattatg acctctccag caacagatac aatcctggat ggaggaatca ccctaacctc 120  
 agatgggtcca gccctcagca acaacaacag cagcctgtct cttccttcca aaatgctgct 180  
 ggcccaagca gaccatacat tctccacca atccagcaac agcaacaacc ccagaaacag 240  
 ccaacagttg aggccctcc acaaccttcc ctgaagaac ttgtgaggca aatgactatg 300  
 cagaacatgc agtttcagca agagaccaga gctccattc agagcttaac caatcagatg 360  
 ggacaattgg ctaccaatt gaatcaacia cagtcccaga attctgacaa gctgccttct 420  
 caagctgtcc aaaatcccaa aaatgtcagt 450

<210> 415  
 <211> 418  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 415

agctnggcat ggtttttaat agctntanaa gcgttacttt tagaagatat gaataaagtc 60  
 caggatatatc tagagtagtc atctacaata accgaagcat aataatttcc tctaatactt 120  
 atgggtctag aagaacaaaa aagatcttaa cgtaaaagtt caagcactct cgaggtagaa 180  
 actgcatttt tagatttgaa agatactcta tttgttttcc cttttgacat gcattacata 240

atccatcctt ttgaaatttt agctttggga gacctttaac taattcctta tagactagct 300  
tatttagttg atccatgagg atatgagtta ttctcctatg ccaaagccaa gagagatcat 360  
cattacttct taaacaagcc atgtngaagt gagatgcact ttctacatta agcatata 418

<210> 416  
<211> 462  
<212> DNA  
<213> Glycine max

<400> 416

actaagcttc ttatccaggc acattcttgg tggtgaaact ccttcctcca tggcttattc 60  
ccttgtggat ggagcctccc ctctcctctt ctctttgcc ttccgctgca tctccatggt 120  
ggaaaatcac cattgaagct caaagatcca gcctccatag aagcttcaca tgcaagcttc 180  
catcagagtt agtgcaactc gatgtcaaaa caacctttct ccatggaaga ttggaggaag 240  
acattttgat gcaacaacct gaaggttttg aaatggaagg gaagaaaaat tatgtatgta 300  
ggttgaaaag gtttatatat gggttgaaac aatctccaag gaagtggtag cagagattcg 360  
atgagttcat tattactcat gggtaaca gaagtgccta tgattcatgt atctattata 420  
gtaaggtggg ggatggtttt cgcacttagg tgctactcta tg 462

<210> 417  
<211> 457  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 417

tctgggggac atcttgactt gctttccaat ctgacattct ccacagattc tgccttcttc 60  
tattntcaga ttgggaatgc ctctaacagc acctttgtca atgattttct tcatgcctct 120  
taagtgcaga tgtccaaatc ttgatgcc aattctgact tcatcttctt tggaggatag 180  
acatgtggag gagtaactgg tttcttgagg tgtccatagg taacagttgt cctttgatct 240  
gctgcccttc attagaactt cactcttctc atttgtcacc aagcattctg actttgtgaa 300  
gtttacattg aatccttcat cacacagctg actgatgctg atcaagtttg cagtcagtcc 360  
cttcaccagc agtactttgt ccagactagg aagtccatca tggactagct ttccatttcc 420

agtgatcttt cctttagagc catctccaaa tgtcaca

457

<210> 418  
<211> 466  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 418

acggaccttg aaactaagct tgaatcgata cacaaggctt gtaatcaatt accagatggt 60  
ttaaacattt tataacaacc ttctgaaatt tgaatttaaa ttttaaagac ctgtaatcga 120  
ttacaacttg tgtgtaatcg attaccagac atgaaaattc aaatttcaaa tctaaagagt 180  
tacaactctt cagaatctaa ctgtgtaatc aattacaata gttatgtaat cgattaccag 240  
taaggaattt ttgaaaataa ctcccaagag tcacaattat tcaaaacggt ntttggatgg 300  
tcatcaaagg cctataaata ggtgacttgn ggtacaaaat tccttagatt tttcctgaac 360  
aaattttctt atcctctcaa taccaaattg tcttataagt ctaaaaaaag aattctttgg 420  
ccaaaacact tgcaaattca gtaaggaatc ttgagtgatg ttcaat 466

<210> 419  
<211> 443  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 419

tcctcttatg agtgcatagc tctttcanaa atttagcata tcttggaatt tgctttattg 60  
catccagtag aggtatgttt acctctactc ttctaaatgt ttccaagatc tccttctccg 120  
cctcttccat tttcttggtg gaaattgctc ttggtgggaa tggaagaggg atatgctact 180  
actgtaagtc agaattacca gtagaagatt cacctgcata gaaattgtta ggcaacttac 240  
tctttaaatt tttgtcatca tctttttctg gagttgagtg acgttgggca ggttcatttg 300  
cagatgagga agatgctact agttgaggtc cttgatactg ttttcccaac ctcaatgtaa 360  
ttgcactcac attcttggga ttctgtacag attgagaagg taatctgtca gaattctggg 420  
actggttttg atttaactat gta 443

<210> 420

<211> 443  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 420

ntgcagcaga tgccactcta ctctaaattn tttaaagata tgtaacaag gaagaacaaa 60  
 tacattcatc aggaaaacat cagagtggaa ggaaattgca gtgctgtgat ccagaagatc 120  
 cttccaccca agcataaaga tctaggagt gtaacgattc cttgttcaat tggagaagtc 180  
 aatgtgggaa aagctcttat tgacctgcga gccagtatca atttgatgcc attctccatg 240  
 tgcggaagat tgggagagtt ggaaataatg cccactcgaa tgactntaca attagctgac 300  
 cgctccatta ccaggccata tagagtaatt gaagatgttn tggtcagagt aaaacatttt 360  
 aacttcccg cagactttgt ggtaatggat atctctgaag atactgacac ccctgtatta 420  
 ttgggaaggc tattcatgtt gac 443

<210> 421  
 <211> 180  
 <212> DNA  
 <213> Glycine max

<400> 421

aatgaagtga aatccaacat ctatatgctt ggttctatca tgatgaacct gatccctggc 60  
 catgtatata aactaaggc tatcacagta gatattaaca tactcttgat taataccgag 120  
 atcatttatc agacctctta gccaaattcc ttcccttggc agcttcagta agagtcatat 180

<210> 422  
 <211> 469  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 422

tactcagctt tgcaagctgg aatcatttat cctatcttcg acagccaatg tgtgagtc 60  
 gtctaggtat tcccgaagaa aatctgcctc accgtgataa aaaatgagaa ggatgagctg 120  
 attctactc gagtgcagaa cagttggaga gtatgcattg actataggag gctgaaccag 180  
 gttacaaaaa aggaccattt ttcactgcca ttcattgacc agatgcttga acgcttgga 240

agtaaattctc actactgttt ccttgatggt ttttctgggt atatgaaaat cactattgct 300  
 cctgaggatc aggaaaagac cacattcacc tacccttgg acactttagc ttataggagg 360  
 atgcctttcg gcctgtgcaa tgccctggt accttccagc ggagcatgat tagtattttt 420  
 agtgattntt tagaannatg catagagggt tttatggatg atttcaactg 469

<210> 423  
 <211> 424  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 423

agcttcaacc ctttcccaa actcggcaag gtacgcgaaa tgttattccc actcagatcc 60  
 aacaatgtca aagatttcaa actagtccaa ttactcggtg tcgtaccact aatatcatta 120  
 cctcccaacc ttatctcaac aagagaatct aacttggcaa cagaaggact caaagtccca 180  
 ctaagattaa acttttccaa aataatcatg tccaccttcc cgtccccatt gcaccttacc 240  
 cccaaccatg gcccgtgaca agggtcattt ccactccaag aatcaaccaa aatccaagga 300  
 taccccaacc ctccaagaaa ctccaacaac accatcactt caaaagcaca cataaccccg 360  
 gcctttgcct cacaaaattc attgtttctca taactcactt tactcgctgc anattccggg 420  
 atcg 424

<210> 424  
 <211> 311  
 <212> DNA  
 <213> Glycine max

<400> 424

tgatagcagc gtaatggaga aggagaaggg tgattggaga tgccacttca aggagaagat 60  
 gagtctagaa gaagctcacc accataggaa gccatggata agagcttgaa ggtaagaaaa 120  
 gatgaatgga gggagagggg gaaagggagc atgaaattta atgcctctaa agaagtttga 180  
 actttgaaag ttaatttctca aatgatcaaa gttgaaaaaa tgcacacaca tagcctctat 240  
 ttatagccta agtgtcacac aaaattggag ggaaatttga atttctattc aaatcttact 300  
 agaaatttga a 311

<210> 425  
 <211> 322  
 <212> DNA  
 <213> Glycine max

<400> 425

gcaaaccaat agcagcagaa taattatgac cttttaagaa acagatacaa tccaggttgg 60  
 aggaatcatc caaatccgag atggacaagt ccttcacaac aacaacagcc tatccctcct 120  
 ttccagaatg gtgctggtcc aagcaagcca tatgttcttc ctccaatgca gcaacagcaa 180  
 caacaacaaa gacaacaagc aactgaggcc cctcctcaac ctttcttaga agagtttagt 240  
 aggcaaatga ccatccagaa tatgcaattt tagcaagaga caaaagcctc cattcagagt 300  
 ctaacaaatc agatggggct ga 322

<210> 426  
 <211> 436  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 426

tccattggtg tcttgaaacc taaggctgat gaaggacatc tattaatcaa atatgttgtt 60  
 gtgtttgcag cttctcccca aaaagccttt ggcagtcctg cacttagaag catgcacctt 120  
 actctttcca aaatggctct gttcattctt tctgccaaac cattctgttg tggagtgtga 180  
 gggactgttt tgtgcctttt gatgcctatt ttcttgcaaa actcattgaa ctgctctgaa 240  
 acaaactcca ggccattgtc agttcttaaa acttttaatt ttgtaccaag ttgatttcca 300  
 acaagagtat gtcattctct gaatttttga aaagcttccg acttattttt canaacatac 360  
 agccatactc ttcttgagaa atcatctatg atggtgagaa agtatgagct tccaccatga 420  
 gttttcactc tagatg 436

<210> 427  
 <211> 416  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 427

agcttcatgc ttaactatgt atggcaaaac ttcattactg gtggtaaga catacaagt 60



agcttgtaac aaatctteta cacttggagt gatcacatgc agtcctcttg aacccttacc 120  
 acccactctg tcatcatgtc gagactcaag aagcccaaca ggtttaacct tctctaagta 180  
 ttctgaacaa aaatcaatgg cttcttctac aatgtacctc tcaacaatag atgcttctgg 240  
 acgatataga ttctntgtat acccttttaa gatctttatg tatcgctcaa ccgggtacat 300  
 ccaccgtaga taaacaggac cacaacattn gatttctcta accagatgca caatcaagt 360  
 aatcatgatn gtcaagaaag anggggaaaa tacatctnca ctggcacagt ataatt 416

<210> 428  
 <211> 459  
 <212> DNA  
 <213> Glycine max

<400> 428

actaagctat gctgctacat ttatataaac ctccacagca gcatactctt tatcagataa 60  
 ataattatga cctttcaagc aacagatata atccatgttg aaggaatcat ccaaacttga 120  
 gatggacaag tctccacaa caacaacagc ctgtccctcc tttctagaat gttgctggtc 180  
 caagcaagcc atatgttctt ccttcaatgc agcaatatca acagcatcaa caaagacaac 240  
 aagcagttga ggctctctt caaccttctt tagaagagtt agtgaggcaa ataaccatcc 300  
 agaatatgca atttcagcaa gagataagag cctccattca gagtctgaca aataagatgg 360  
 ggcagatggc tactcagatg aaccaagccc agtcccaaca ttctaacaaa tagtcttcac 420  
 aaactgtgca gaatctgaaa aatgtgagtg ccatcacct 459

<210> 429  
 <211> 333  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 429

aagatatggg cctgcctatc tgatcttcta tgctttaata ggtggaaaga agaattgagt 60  
 tcaagaggaa cctcactctt atgatgaggt cataagcaac aaggacaatt caaatggat 120  
 tgaagctatg gaagaagaaa tgtcttttct aaaaaagaat tgtcctaaag ggcagtaa 180  
 tgttggatgc agatggctat tcaagaggaa agaaggtttt gaaggagttc aaagtgtaag 240

gttcaaagct aggctagtag cctgtgggtt tactcaaaag gaaggagtag attntgtaga 300  
aatcttctca cctatggtaa aacatagttc aat 333

<210> 430  
<211> 339  
<212> DNA  
<213> Glycine max

<400> 430

gcccataagg catcatccaa cttcacaacc aatccttctt tgaggatgca acaatattct 60  
ccagaatttt cttcaattct ttggtggata cctcggcctg gccatttttc tgaggatgat 120  
aaggtgaaac taccttacgt ttgacattat aatgcccaat accttctaca actatctatt 180  
gcagaaatgt gaaccctatc actgattatc actctggaga ccccgagcg ggagaaaatg 240  
tttctcttca ggaatttgat gacaatcttg gcatcattct ttgaggcaac cacaacttcc 300  
accacttgg acacttaatc aacaaccacc aagatgtac 339

<210> 431  
<211> 412  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 431

tcactgaatt gctggtctta ttgaagaaca tgcttctctg atcaaaacac ttttccgaan 60  
aatcactacg aggccaaaaa gattttgtgt ccagtgggaa tggagtacaa gaagatccat 120  
gcatgcccta atgattgcat attgtataga aatgagtatg cagaactacg gcaatgcccc 180  
acgtgtgggg tatcatgata caaagtgcaa catgatgaat taactgatga tgcaggaacc 240  
aaaaattgtc gtcctgccaa ggtgtgttgg tatcttccaa taataccaag gtttaagcga 300  
ttgtttgcta atacacatga tgcaaaaaac ctttcatggc attcggatga ccgaaaatct 360  
gatggattac tgtgacatcc tgccgattcg ccgcagtgga agacaattga tc 412

<210> 432  
<211> 455  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations

<400> 432

ngtctctaca gaagaaagaa acaaaaataa gagtagattc attgtagata attctttgca 60  
gtgatcaaga ataattatga accaaccaat caatcaacaa gcataaattg aaaattggtc 120  
ccacattcta aaaatggtea tctcagtgtc tcaaaaaaat ttctcaaaag aaatagaaag 180  
tacaaaatca tacataaaag cttagaagca aagtttgagg gttttatctt acttttgata 240  
tctgtgtcc acacctttgc tggggatgaa ccaatttctt catctcccag agtggttattc 300  
caattggcac tttctttctt caaatgacca agctcgctca acaaatattc aacattgatg 360  
taatggcatt cctccgagt cttccagaaa aggagttcca caaacaagag ggggtgcttt 420  
ttcattntct ttagcatctt tctgaccaa caagt 455

<210> 433

<211> 378

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 433

agctntaaag gaaatctata ttngnctctt gtcttatntt ccttgcaatg gaattttgtt 60  
ggattgctgc tcaactcctt gagtattttg caattgggtat ctctatttag atattttctg 120  
agagaagagg tcaatggaag gcagcagctc aatcccagga atttattcga acactacagc 180  
gttattataa caacacatat ttagatgggtg ataagcaaaa agcaattaac ttgtaagtca 240  
aataagccaa ttttttattt gtatttaca ctgttttcat atgtaatatg gtttacagca 300  
aacacaagtt atgtatatat gtgattgcat tataatgatt tactaattgg tgggtctgat 360  
tttgtttggt tcacactc 378

<210> 434

<211> 420

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 434

agctntgacc aaaccccagt agcagttggt ttcttagaga cttgcctcag caccttgtct 60  
ctgagattaa ggataattgc attgtgttcc ttctgcaata gtgctttctt atccccatca 120

gccatcatct tttcgagttt ggcttctcca tcaagtgtt ccaccaggcc ctgctgaaca 180  
 agaaaagctc tcattttcaa tgcgcataac ccanaatcat ttgacctgt gaatttttca 240  
 acctcatact tggccgagcc cattttctga atcgaactca aaatcgatcc aactcaccg 300  
 caccaatttg ttgtgccaag atcagatttt acttcacaaa agaattgagtt tcttgtatga 360  
 acaagaataa gcaaaatgca gaaaaatgaa ccataaactg cacagaactc acaacagtca 420

<210> 435  
 <211> 397  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 435

gaagctctaa tatcttccac acttttttgggt gtggggccatt cttggatggc cttgattttc 60  
 tcagggtcca cttggacccc attttctacca actaccaaac ctaaaaaaac tatattatct 120  
 acacaaaagg tacacttctc tatatttgca taaaagggtgt ttttcctaag gactgaaaga 180  
 acttgtctga gatggtctaa gtgatcatct agcctcctac tatacactaa aatatcatca 240  
 aaataaacia ctacaaatct acctatgaaa tcccttaaga catgatgcat aagcctcata 300  
 aagggtcttg gtgcattagt gagcccaaaa ggcacacta gccattcata caaaccaaac 360  
 ttgggtctga aagcagnttt ccactcatca cccctttt 397

<210> 436  
 <211> 394  
 <212> DNA  
 <213> Glycine max  
 <400> 436

ttaattgggc accttaaaat tggaggctta aggttggat ccaaggagaa gatgatgaga 60  
 ggactaccct ttattaaccc ccgtgaataa ctttggaag gatggttact tggaaagcaa 120  
 tttaaaatga ggttttccaa ggaagcaaac ttatgagcta agaagccacc cgagctaata 180  
 catgctgaca tctggggggcc aatcaagcca agctcactag gtaaaaaataa ctatttcctt 240  
 cttttcattg atgatttttc aagaaaaaca tgggtttatt tcttaaagca aaaattaaaa 300  
 gtcttttctt gcttcaagaa gttcaaagct gcagtggaga aagaaaatga tcaagatatc 360  
 aaagccatga ggactgatcg aggaggataa ttca 394

<210> 437  
 <211> 446  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 437

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 acacttcctg agcaggtacg agcagttatg caagtgggat cagcaacttt cattatcaga 120  
 gtaatcaagc acagcggat ctgtagtggc gacagcaaaa ttctgcaagt tgcaagtctg 180  
 ttccccgatg tcaagacatc tcacgtgaca tcagcttctt gctccccctg tctccatgct 240  
 cttactgctg tgaagcagtt cactgcagca tcttctatca gctactagtc ttttccagga 300  
 tgtcaagaca tctcatgtga catcagcttt ttgctcccc tgtctccatg ctctgactgc 360  
 atcttctatc agctactagt ttcagtagct tacatcaatc atcatcagca gcagcagtct 420  
 gccctagaa tcatatacat acaact 446

<210> 438  
 <211> 397  
 <212> DNA  
 <213> Glycine max

<400> 438

tccttgagaa gattccttga gaagattcct aaagaagcta gagcttagct acatacacct 60  
 ctctaataagg aaagctcacc ttcttgagat gagaagctag agcttagcta cccccctat 120  
 aatagctaag ctcccccta tccccaaat acatgaaat acaaaaaaaaa agtccctact 180  
 acaaagacta ctcaaaatgc cctgaaatac aaggctaaaa ctctatacta ctagaatggc 240  
 caaaatacaa ggcccgaaag aaggaaaaac ctattcta atgtacaaag ataagcaggc 300  
 tcatacttag ctcatgggct cgaaatctat cctaaggcta atgagaacc tagggccttc 360  
 ccttgatct ctggccaat ctacttgag tcttcta 397

<210> 439  
 <211> 421  
 <212> DNA  
 <213> Glycine max

ntgatattgg taagtaaattg cctcanaact tctattatat ttctgtttc tgaagtacgt	60
tntttctcac taacatctct ttttataaca ttaatctctt taatcctctc atttgtacta	120
attactttat cttacatttt tcttctttt cttctcatct ctttttctat taaaaaagtt	180
gcccgatttt gttatataaa tgcaatttct cttttcattn taccaaactc tatataaaga	240
tattttattt gtttcaccag gacatatttg ctgctggaac tgatacttca gcatcaacac	300
tagagtgggc tatggcagaa atgatgagaa atccaagagt gagggagaaa gcacaagctg	360
aattgagaca agctcttcga gaaaaggaaa taattcatga aagtgatcta gagcaactta	420
	421

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<223>      unsure at all n locations
<400>      440
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tcaacatcag accacttcca ggggtgctgga tctacttcac atggacttga tggggcctat	60
gcaagttgaa agccttggag gaaaaaggta tgcctatggt gttgtggatg atttctccag	120
atttacctgn gtcaacttta tcagagagaa atcggacacc tttgaagtat tcaaggagtt	180
gagtctaaga cttcaaagag aaaaagactg tgtcatcaag agaatcanga gtgaccatgg	240
cagagagttt gaaaactgca agtttactga attctgcaca tctgaaggca tcaactcatga	300
gttctctgca gccattacac cacaacaaaa tggcatagtt gaaaggaaaa acaggacttt	360
gcaagaagct gctatggtca tgcttcatgc caaagaactt tcctatgacg tctgggctga	420
agccatgaac acagcat	437

<400> 441

186

agaataccgg cctcgtagtg atgaacaatg agacggagga gctgattcct actctgggtgc 120  
agaacagttg gagagtctgc atcgactata ggaagctgta ccacgttacc acaaaggacc 180  
atcttccctt atcattcatt gaccacatgc ttgaacgcct ggcaggaaaa tctcactact 240  
gtttccttga tggatgttct ggtcatatgc agattactat tgctactgag gatcacgata 300  
aaaccacatt cacctgcccc ttcagtactt ttgcctatat gaagatgcct ttccgactgc 360  
gcaaaggccc t 371

<210> 442  
<211> 459  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 442

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catctcaata tattacggga cttaatcgga catccgagtt aaaagttatt gttgtttgca 120  
tttgctacga gcttccgttt tcaattacga gcgtctcgat atattacggg actcaatcca 180  
acctccgagt taaaagttat tgtcatttga atttgctacg agcttccggt ntcaatttct 240  
agtgtattga tatattacgg gacttgatcg aacattcgag ttaaaagtta ttgtcatttg 300  
catttactca cagctttcgt tttcaatgac gagtgtttcg atatattacg ggactcatcc 360  
gagttgaaag ttagtgtcat ttgaatttgc cagcagcttc tgttttcaat tntaagtttc 420  
ttgatattatt tcgggactca atcggacatc cgagttaaa 459

<210> 443  
<211> 454  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 443

tganattgaa caacggaagc tctcgagaaa ttcaaattgat cataactttt caaacgaaag 60  
tccgattcag gtgcataata tatcggaag cttgaaattg aacaacggaa gctcttgaga 120  
aattcaaag gtcataactt atcacacaaa agtccgattc aggcgcataa tatatctaga 180  
cactcgaaat tgaacaacgg aagctctcga gaaattcaaa tgggtataac ttatcacacc 240

gaagtcggat tcaggcgcat aatatatcga gacgctcgaa attgaacaac ggaagctctc 300  
gagaaattca aatgggcata acttatcaca cggagggtccg attccggcgc atagtatata 360  
gagacgctca taattgaaca acgaaagctc tcgagaaatt caaatgctca taacttatcc 420  
cacggaaggt cgattcatgc gcatgatata tcta 454

<210> 444  
<211> 405  
<212> DNA  
<213> Glycine max

<400> 444

agcttggaag tgaacaacag aagctcacga gatactacaa tgggcataac atgtcacacg 60  
aaagtcggat tcagggtgat aatatatcga gacgctcgaa atagaacatc ggaagctctc 120  
gagaaattcc aatgggcata acttttcaca cggaaagtcct attcaggcgc ataatatatc 180  
gagaagctgg aaattgaaca acgaaagctc tcgagagact caaatgggtca taacttgctca 240  
cacggacgct cgattcaggc gcataatata tcgagacgct cgaaattgaa caacgtatgg 300  
tgtcgagata ttcaaattgg cataacttgt cacacggaag ttcgattcag gcgcataata 360  
tatcgagacg cttgaaatga acaacggaag ctttgagaaa ctcaa 405

<210> 445  
<211> 430  
<212> DNA  
<213> Glycine max

<400> 445

ctacaatgga ttaggtatcc catttcaaca aaaaagattt acttaacaga ttaaattctg 60  
caaaaatatt ttccaagttt gacatgaaat ccggattttt gcaaattcaa atacaagaat 120  
cggataggta caaattgctt ttacaatacc ttttgggcaa tatgagtgga atgttatgcc 180  
attcagtctg aagaacgccc cttcaacttt tcagaaaatt atgaatgata ttttcaatcc 240  
ttattataat ttatcattgt ctacatgtgg aagcaatgcc ttccaagatt attttgatga 300  
tgccaaagaa tcaagagtca tacaagtttc aagaatcaag atcaagattc aagattcaag 360  
attcaagaat aatcatgatc aagattcaag attcaaataa agaattcaaaa ctcaagattc 420  
aagaatcaag 430



<210> 446  
 <211> 410  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 446

gtctcagat tgaacatgct catgcaacaa ttgttagtcg tggctatacg agacatcttg 60  
 ccaaacaaag ttaggttagc gataactcgc ctgtgattnt tcttccatgc tataatgtagc 120  
 aaagtcattg atccagtcaa gtttgatgag ttggaaaatg aggcgcgaat tatactgtgc 180  
 cagttggaga tgtattttcc ccccgcttcc ttaacatca tgattcactt gattgtgcat 240  
 ctggtcagag aaatcaaata ctgtggctct gtttatctac ggtggatgta cccggttgag 300  
 cgatacatga agatcttaaa agggatataca aagaatctat atcatccaga agcatttatt 360  
 gttgagaggt acattgttga agaagccatt gaattttggt cagaatactt 410

<210> 447  
 <211> 435  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 447

ntgatggtgt tgagaagaaa tcacatgttt gtcacatca ttaaggggaa gaatgtgaat 60  
 gtatgtatac atgattttga tgatgtcaaa agaagaatca aacaaggctc gcttcaagat 120  
 taatacaaga ttgtttcaac aaacaaagcc ttgattcaag atttcttcaa gatcaagcct 180  
 tgctcaciaa tgaaagggtt caagtcattc aaggcacatg taatcgatta ccaatggctt 240  
 gaaagtgtgt aatcgattac acatcatatg taatcgatta ccagagactc tgaacgttgg 300  
 gaattcaaat tttaaataaa gggtcacaac tgttcaagag aaacaactgt gtaatcgatt 360  
 acactaattc tgtaatcgat tactagagag gattttcaag agatatcgcc aacagtcaca 420  
 tcttatcatt tggat 435

<210> 448  
 <211> 347  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 448

agcttaccac tcattgtacc aacaagtgtc cttatgaggt tctctttggc tccaaacccg 60  
 attgccataa tctntgtgtt tttgggagtc tatgttatcc atggctacgc ccttactcaa 120  
 ataaaagcat gccatgtgtg tttctaggtc cctctcccca acaccatgca tacgaatgct 180  
 atcatattct aactcaaaaa atatacctct ctagacatgt tgtctttcat gaatcaatct 240  
 tccccctact acgcctcatt tggtccttac cttcccaacc tcaaaccatg atatgacctt 300  
 acttatctct tgccatcctc tcatactaca acaactccat acaaaca 347

<210> 449  
 <211> 412  
 <212> DNA  
 <213> Glycine max

<400> 449  
 tctattctga atttcaagcg tctcgatata ctatgggact ttatcgaaca tccgagtaaa 60  
 aagttattat cggttgaatt tgctaagaac atccgttttc aattacgagc gtctcgatat 120  
 actacgggac ataatcggat atctgagtaa aaagttattg tcgtttcaat tttctaagag 180  
 catctatttc aattttgagt gtctcgatat attacgggaa tcaatcggca tctgagttaa 240  
 aagttattgt catttgaatt tgctacgagc atatgttctc agttacgagc gtctcgatat 300  
 accacgggac acaatcaaag atccgagtaa aaagttattg tcgtttgaat ttgcacagag 360  
 cttctgtttt cagtttcgag catctcgata tattacagga ctcaatcgga ca 412

<210> 450  
 <211> 403  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 450

ncaagcttga gcaaattcaa acgacaataa cntttcactc ggatgtctga ttgagtcccg 60  
 taatatatcg agactctcaa aatggaattt cgaagctctg agcaaattca aacgacaata 120  
 actttttact cgtatgtctg attgagtcct gcattatata gagaccctcg aaattgaata 180  
 ccgaagctct gatccaattc aaacgacaat aactttttac tcggatgtct gattgagtcc 240

cgtaatatat cgagaacgct cgaattgaat attgaagctc tgaacaaatt caaattacaa 300  
 taactttttc ctcgatgctc tgattcagtc tcgtaatata tcgagacgct tggactagat 360  
 tgccgaagct ttgagcaaatt tcaaacgaca atatactttt act 403

<210> 451  
 <211> 447  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 451

ntgaatgcac tattcaatgg agttgacaag aacatcttct gtctgatcaa cacttgacac 60  
 gtggcttttag atgcatggga gatcctgaaa atcactcatg aaggaacctg caaagtgaag 120  
 atgtccagat tgcaactctt ggctacaaaa ttcgaaatctc tgaagatgaa ggatgaagag 180  
 tgtattcatg acttccacat gaacattctt gaaattgccca atgcttgac tgccttgga 240  
 gagaggataa cagatgaaaa gctgggtgaga aagatcctca gatccttgcc taagagattt 300  
 gacatgacag tcaactgcaat agaggaggcc caagacattt gcaacatgag agttgatgaa 360  
 ctcatgggtt ctcttcaaac ctttgagcta agactctcng atagggtga aaagaagagc 420  
 aagaatctag ctttcgtgct caatgat 447

<210> 452  
 <211> 377  
 <212> DNA  
 <213> Glycine max  
 <400> 452

tgcttgaatg cactattcaa tggagttgac aagaacatct tcttattgat caacacttgt 60  
 ttagtggcca ttgatgcatg ggagatcctg aaaatcactc atgaaggaac ctccaaagcg 120  
 atgatgttca cattgcaact cttggctaca aaattcgaat atctgaacat gaaggaggaa 180  
 gagtgtattc atgacttcca catgaacatt ctatgaaatt gccaatgctt gcaactgcctt 240  
 gggagagagg ataacagatg aaaagctggt gagaaagatc ctcagatact tgcctaagag 300  
 atctgacatg aaagacactg ctatatatga ggcccaagac atttgcaaca tgagagttat 360  
 gaactcattg gttctct 377

<210> 453  
 <211> 410  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 453

catcacatgc cattgcttcg ttgatgaggt tgctgtgac gagatttgcg gcattatagc 60  
 gccacacgtc ttcaccgtga gcctttgcaa atgaggggtt gccattggcc atgacgcgag 120  
 cactcagact gtgccaaggt gccagcatta caggactact ctccagcaag agaaaactag 180  
 ccatgctgtg ttgcgcgttt ctcatcaatc gacgagacag agctgattga gaatagcccc 240  
 tgctgcaccc gtgcgctttg aatatctttc ttgacacaa gaacctcatg atgcgcttca 300  
 gatgtgaagt atcacacct aaacttgatg atatctcga tagtgtcatg ggacttccat 360  
 gcttctctat ggcttcagct atgccaagct caatcgaca ttntatcact 410

<210> 454  
 <211> 397  
 <212> DNA  
 <213> Glycine max

<400> 454

agcttcaaga tlaagatggc ctacagcaat tccttatttc cggaagggaa ttctatcaat 60  
 agacctcaa tctttaatgg agaggggttac cactactgga aaacccgaat gcaaattttt 120  
 atcgaggcaa tagatctaaa tatctgggaa gccatagaaa tagggcctta tatacccacc 180  
 acagtagaaa gagtttcaat agatgatagt tcatcaagt aaagcataac catagaaaaa 240  
 cctaaagata gatggtctga agaggataga aaaagagtac aatacaactt aaaagccaaa 300  
 aacataataa catctgccct aggaatggat gaatatattca cggtttcaaa ttgtaagagt 360  
 gctaaggaaa tgtgggacac tcttcgatta acacatg 397

<210> 455  
 <211> 340  
 <212> DNA  
 <213> Glycine max

<400> 455

agcttcttag tttcagatga tactgctgag ttgtagcta cctcatgcac tcctctaagt 60

actatagcat catttatggc gctaaactgc tgggagttgg aagccatctt ctcaattaaa 120  
 tttctggctt cagcaggagt catgtctcca agggctccac cactggcagc atctatcata 180  
 cttctctcca tattactgag tcttcataa aaatattgaa gaagaagctg ctccgaaatc 240  
 tgatgggtggg ggcaactggc acatagtttt ttaaategct cccagtactc atacaggctc 300  
 tctccactga gttgtctaata acctgagata tctttcctga 340

<210> 456  
 <211> 386  
 <212> DNA  
 <213> Glycine max

<400> 456

gcttgagaaa tatactaccc catgaagttt atcaattagt tcatcaacag cggaatagg 60  
 aaagtatatct ttgattgtga tggcattcaa ggcctgtaa tctgtgcaa atctccaagg 120  
 gccatccttc tttttgacaa gaatgattgg aggtgaaaaa tggcttctgc taggggcaat 180  
 aatcccttcc ttgagcatgt cagctatcat taattacttc aatctgatcc ttccggctgt 240  
 gaggatacct atatggcttg acttttactg gtccagcacc ttcaaccaat gggattgaat 300  
 gaatgtgagt tcttctaggg ggtaatcctg atggcaccat caagactgtt ctataagtgt 360  
 aaagtaaaca gttccycaat ggcattg 386

<210> 457  
 <211> 247  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 457

tatcaccttt accagcgatt gaaaaaaact nttagcgaat gtcaagaaca tgaaagtgca 60  
 ccgatactat taattgggtca gcagattctt aagcgggttg aggacattaa tacgatattt 120  
 cgaaagaccc aaaagaaaaa agtaaaactt gcatatggaa taagaggctg atattctatg 180  
 atcttccata ttggtctaata ctagatgtca cacactgtat tgatgttatg catgtggaga 240  
 aaaatgt 247

<210> 458  
 <211> 420

<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 458

agcttgaagg actacgttac acggatgaag gatggtcaga aggacattta ctacatcaca 60  
ggagagagca ngaaggcagt ggagaactct cccttcttgg agagactcaa gaagaagggc 120  
tatgaagttc ttttcatggt ggatgcaatt gatgagtatg ctgttggaca actcaaggag 180  
tacgatggca agaaattggt ttcagctaca aaggaagggt tgaagctaga tgatgagact 240  
gaggaagaga aaaagaagag agaggagaag aagaagtcatt ttgatgaact ctgcaaggctc 300  
atcaaggaca ttctgggaga caaagtggag aaggttgttg tctctgacag aattgggtgat 360  
tccccttgct gtttggcgac tggatgaatat ggatggagcg cacacatgga gaggatcatg 420

<210> 459  
<211> 407  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 459

gaaatgacaa taactntata cacggatggt ctgttgagtc ccgtttatat cgagacgctc 60  
aaaatttaga tccgaagctc tgaaaaaatt gaattgacaa taactttata catggatgctc 120  
cggctgagtc ctgtaatata tcgagacgct gcaaattgaa aacggaagct cgtaggaaat 180  
tcaaacgaca ataacttttt actcggatgt tcgattgaat cgggtaatat atcgagacgc 240  
tcaaaattga gactagaagc tctgagcaaa tttaaataac aataactttg tacacggatg 300  
tccggctgag tcccgtaata tatcgagagg ctccacattg agaacggaga ctcttagaaa 360  
attcaaacga cactatactt ttactcggat gcccgacaga gtgtcgt 407

<210> 460  
<211> 386  
<212> DNA  
<213> Glycine max

<400> 460

tgaaggtttg tacatgacca aatctttagt taatcttctt tacctaaagc agtctttgta 60  
ttcatttaaa atgcatgaag atagatcagt aggagaacaa ttggatttgt ttaataagtt 120

gattctagat cttgaaaata tcaatgtcac cattgatgat gaggatcaag ctttgctatt 180  
 gttgtgctct ttgcctaaga gttactctca tttcaaagag actctactgt ttggaagaga 240  
 cttcatttct cttgatgaag tgcaagctac tctgaattca aagcaattga atgaaagaaa 300  
 ggaaaagaag tctctacaa gtggtgaagg gctgacagca agaggcaaga cttcaagaa 360  
 agatattata tctgataaga agaagc 386

<210> 461  
 <211> 401  
 <212> DNA  
 <213> Glycine max

<400> 461

cttgagcaaa ttgaaatgac aataacttta tacacggatg ttcggttgag tcccgtata 60  
 catcgagacg ctccaaattg aaaacggaaa ctcttataaa attcaaaca caataacttt 120  
 ttactcggat gcccgacaga ttgtcgtaat ttatcgagag atgctccaaa ttgaaaacag 180  
 aagctcgtat caaattcaaa cgacaataac tttttactag tatgtctgat tgagtcccg 240  
 aatatatcga gacgctcaaa attatgatcc gaagttctga gaaaattgaa ttgacaataa 300  
 ctttatacat ggatgaccgg ttgagtcctt gtatatattg agacgctcgc aactgataat 360  
 ggaagctcgt atgaaatgta aacgacaata actttttact t 401

<210> 462  
 <211> 341  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 462

agctttagt ttattcaaac gacaataact ttatacaagg atgtccgatt gagtgccgta 60  
 atatatcgag acgctccana ttgaaaatgg aaactcgtag caaattcgaa cgacaataac 120  
 tttttactcg gatgtccgat tgagccccgt aatatatcga catgggtccaa attgaaaacg 180  
 gaagctcgta caaaattcaa acgactataa cttttcactc agatgtccga ttgagtcccg 240  
 taatatatcg agatgtccca aattgagaac gggagctcat agcaaattca aacgaccata 300  
 actttttact tggatgtccg atggagtccc gtaatatatc g 341

<210> 463  
 <211> 426  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 463

tcttattttaa atttcgaacg tcttgatata ttacgggact ctataagaca tccgagttaa 60  
 aagttaatgt cctttgaatt ttctcggagc ttttgttttc aatttggagt gtctcgatat 120  
 attacgggac tcaatcggac atccgagtaa aatgttattg tcgtttgaat ttgctcagag 180  
 tttctttttt aaatttcgag cgtctcgata tattatggga ctcaattgga catcggagta 240  
 aaaagttatt gtcgtttgaa ttgctcaga gcttctgttt taaatttcga gcgtctcgat 300  
 atataacgag actcaataag acatccgagg aaaaagttaa tgtcatttga atttcttcga 360  
 agcttctgtt ttcaattttg agcgtctcga tattttacag gactcaatcg gacatccgag 420  
 taaaat 426

<210> 464  
 <211> 456  
 <212> DNA  
 <213> Glycine max

<400> 464

gcttatcccc taatgcacct attccattcc tcccatgggc atcatcacca taaacagcaa 60  
 taacctctct ccagccaaag tagttaacaa agtctgctat tgcagtcatt tcataaatgt 120  
 cactaaaagc agttctaata aagaatggga attgaagtga agaaagagta gggtcagtgg 180  
 ctgtaaatga tagtagagga acttgagct cgctcgtat atgagatatg acatgagctg 240  
 ttgtagacgt ctggggaccg attatagcca cagtttgtgt tgccatgagc tgcaaggcta 300  
 ttacacacaa tttatgtaaa ccaagagtaa taatctgcca aactttgaag taacttgtct 360  
 aatagaaaaa aagatgcttt taaagtttta acacataaaa aagatgggaa tattgtgaag 420  
 gacgtaccct cggcaatgct cagaaaacct ctgtat 456

<210> 465  
 <211> 449  
 <212> DNA  
 <213> Glycine max



<223> unsure at all n locations  
<400> 465

tctgcaagct ggaaccattt atcctatctc cgacagccaa tgggtgagtc ccgctctctgt 60  
agtcccgaag aaaaccggcc tcaccgtgat aaaaaatgag aaggaggagt tgattcctac 120  
tcgggggcag aacagttgga gagtctgcat cgactatagg aggctgaacc aggttaccaa 180  
aaaggaccat tttcccctac cattcattga ccaaatgctc gaatgcctgg caggtaaattc 240  
tcactactgt ttccttgatg gtttttctgg ttatatgcaa atcactattg ctcttgagga 300  
tctggaaaag accacattca cctgccccctt cggcactttt gcctatagga ggatgccttt 360  
cggcctgtgg aatgccccctg gtaccttcca gcggtgcatg atcaatatctt ttagtgattt 420  
tttacaanat tgcatagagg tgtttatgg 449

<210> 466  
<211> 413  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 466

tgacatgcta ttgaacaagc agttatatac tctgcttcac ttgtagagag tgcaacaaca 60  
tcctgtttct tagagcacca ggagatggga gcacctcaa acaataaaac atgccccatt 120  
atgctttttc tgtcaagaac atctccacca cagtctgagt ctgaataagc cacaagttgt 180  
ggctcaacct tctctttcta atgtggaaat agaacaccaa agtctagtgt gctctcaagt 240  
atctcagtat ccttttagct accatcatat gtgaatgtct tggatcactc ataaacctac 300  
tgataactcc cacattgaaa gtgattttctg gtctggaatg acaaataaat ctgagactcc 360  
caacaatntg cctatacaag gtacaatcca ctacaggttc agctttacat tta 413

<210> 467  
<211> 330  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 467

agccaaaaac tttaacaatg accanagcaa gacatctaca ttcaacttca gtacttgagt 60

gtgcaacaac aaattgcttc ttagaccact aacagatgag attggggctg aagaagacac 120  
aagcgtcgaa ggtggaccat ctgtaatctg ggtagacgc ctagtcagca tcacagaaag 180  
tcacaataga aaaaagggtgc agaagcaagc ttgaaatgcg agccccacga gatgggtccc 240  
ttgagatacc gcggtatccc cttatggtat catagtgtaa cgccctgaaa tttecgtaac 300  
tggaatcga ttttaatgta tttctcatct 330

<210> 468  
<211> 357  
<212> DNA  
<213> Glycine max

<400> 468

ctttagctat gtgtgctgat gttggctaca cagatagagc atctgaaatt ttttatgaaa 60  
tgaaaagttc tgggacttgc cagcctgaca gttggacatt ttcattcatg attaccatgt 120  
attcccgagcag tggtaaagtt tcagaggcag aagggatgtt gaatgaaatg atccaatctg 180  
gatttcaacc tactatTTTT gttatgacat cactcatctg ctgctatgga aaagcaaagc 240  
gaactgatga tgttgtgaag atatttaaac agctcctgga tgtgggcatt gttccaaatg 300  
atcatttctg ctgttctctt ctaaagtgtc tgactcaaac accaaaagaa gagcttg 357

<210> 469  
<211> 445  
<212> DNA  
<213> Glycine max

<400> 469

tgaaggtaaa ctagatgcct tggttaacct ggtaacccaa ctggccatga atcaaatatc 60  
tgcacctgtc accagactct gtggtttatg ctctctgtcc gaccaccaca cagacctttg 120  
tccttctgtg caacaatctg aagcaattga acagcctgaa gcttatgctg caaacatcta 180  
caatagacct cctcaacctc aacaggaaaa tcagtcacaa cagaacaatt atgacctctc 240  
cagcaacagg tacaatcccg ggtggaggaa tgatcccaac cttagatggt tgaatccttc 300  
acaacaacag caacaacaac cttattttca gaatgctgct agcccaagca gaccatatgt 360  
tcctccacca atccagcatc aacaacaata acaacaacaa cccagaaac agcaaacaat 420  
tgaggctctt ccgcaatctt cctt 445

<210> 470  
 <211> 400  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 470

catgcaagct ntntcacagt caactgtgaa gaccatgcaa ggattgcttc tggatntagc 60  
 ttcagctata acctcattag caatcaacac accatgaaga atatgccttc ctttcagaac 120  
 agcagtttgc ctttcatcaa tgaggtgagg gaaaacaaga gccagcctat tagccagaat 180  
 tttggacact attntataaa cacaccctat aagagagatg ggtctataat cattaagaga 240  
 ttgagggtta atgatcttgg ggataagggc tatgaaggaa gcattgcttc ctttggggta 300  
 taagccattg atgaagaact catccaagaa ccgaataaag tcaggtttta gaatctccca 360  
 naacttcttg ataaaattaa agttcaagcc atccgagcca 400

<210> 471  
 <211> 443  
 <212> DNA  
 <213> Glycine max

<400> 471

tcaagaaaaa tggcctcagc aaacttctta tttccagaat gaaattcaat caatagacct 60  
 ccaatcttta atggagaggg ttaccactac cggaaaaccc aaatgcaa at ttttattgag 120  
 gcaatagact taaatatttg ggaagccata gaaatagggc cttatatacc caccacagta 180  
 gaaagaattg caatagatgg aagcacatca agtgaaagca taacaataga aaaacctaga 240  
 gatagatggg ctgaagagga tagaagacga gtacaatata attgaaaagc caaaaacata 300  
 ataacatctg cctgtggaat ggatgaatat ttcagggttt caaattgtta tagtgctaag 360  
 gaaatgtggg aactctaca attaacacat gaaggaacta cagatgttaa aagatctatg 420  
 ataaacacat taactcatga ata 443

<210> 472  
 <211> 362  
 <212> DNA  
 <213> Glycine max

<400> 472

cctctgagtc acctgctgca tgcattgctag gaccgtgccc aagttgagcc tccaatatat 60  
 ccaccgttgg gaaatattag actttgagaa ctttagctac tattatatct tgggttggtca 120  
 tattctctag ccttgcttcc ctaccacgac aagggtaaaa gcatgcagtt gtctaaacca 180  
 cataccttca tggtcctttt tcattatcat cttgaccac ataagccaat tgattccttg 240  
 tctttgtgga ttagagtccc accaaaaaga attcatcatc tgctacaatt catcttcaag 300  
 agtggaagga aacatatata cactcatgta ataagtgggt atagatcgag caacagattt 360  
 ta 362

<210> 473  
 <211> 430  
 <212> DNA  
 <213> Glycine max

<400> 473  
 cgcttggaat atgatttcta tacaaaagtt agtcgtataa agcgactaac aaatcttcag 60  
 taatatcccg ccaaaccag aaaactccta atctcacaca cagacttaag actctccac 120  
 ttaagtacaa cttctatctt agaaggatct atatctatac tgccttagga taccacatgt 180  
 cctagaaaac taactttatc taaccagaac tcacacttgg acaacttagc ataaagttgt 240  
 cggttcctaa ggggtgtgca cacaatcctc aagtgtctct catgctcctt tctagtcttt 300  
 gagtatacca aaatatcatc tatgaaaact accacagaac tatcaagata tgggtgaaag 360  
 atcctattca tgtaaactat aaacacacca ggggcattag tcacaccaat gggcatgaca 420  
 tactcatagt 430

<210> 474  
 <211> 445  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 474

agctntntat ttttagtaga tgaagatgaa ttcgtggcca cctcatggac tcctctaaga 60  
 acaatagcat catttcttga actgaattgt tgggagttag aagccatctt ctcaatcaaa 120  
 ttcttagctt cagtaggggt catatcacca agagctccac cactggtagc atcaatcata 180

ctcctctcca tgttgctaag tccctcatag aaatattgaa gaaggagtgtg ctcagaaatc 240  
 tgggtggtgaa ggcagcttgc acacaatttc ttgaatcttt cctagtactc atacaagctc 300  
 tctccactaa gttgcctgat gctgaaatg tcttttttga tggcagtggg ccaagatgaa 360  
 gggaagaatt tctccaagaa caccctctta aggtcatccc agctgaanat ggacctgaga 420  
 gcaaggtagt atagccaatc ttttg 445

<210> 475  
 <211> 339  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 475

agctngcata cattattctc cttgcctgca tcttanaacc ttctggttgg gtcatataga 60  
 tgtcttctc taaatcccca tgcaagaatg tagttttaac atctaactgc tccaagttaa 120  
 gattctctgc agctactatg ctcagaataa ctctgatggg agtcatcttt acaactggag 180  
 agaagatctc tgtgaaatca attccttggt tctgctgaaa ccttttcacc acaagtctcg 240  
 ccttgatatc tcttctaccg tcagattctt cctttagcct atagaccac ctattctgta 300  
 atgccttctt tcttctggc aatttaatta aagaccacg 339

<210> 476  
 <211> 417  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 476

gatgtttatg aattaattng acattatggt atatntattg atgatcaact tgatagtaaa 60  
 ttaaaaaaat gtgaactcaa ttggcataag ctatacaata gaataaaatt atgcactttt 120  
 tacacatcac tgactaaata aaaaaaatgt tgtaacataa actaatttat catcacttta 180  
 catttctcaa gaacaaaagt gtttatttac accttctttt atctaataa attcatgtca 240  
 aattcattag ttaaggaata aaactcatta aataattaat aagtgatact acataattta 300  
 ctgaatttta cgtgattgta atttaataat aaaaatgta ataatatatt aatatatatt 360  
 tatgaacctt nttcattgcc caataaaaat aaaaagtta aataattatt gtaatcc 417

<210> 477  
 <211> 418  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 477

agcttattgg ttntgataat atcactagag aaaatacagc attaaaagta atttanacgt 60  
 aaaataatca tcaatcttta tactatgtct ctttctgtc agatctcatt cctgggtgatt 120  
 ttattcatgt tattggggat gctcatattt accgcaatca cgtgaggcct ttgcaggagc 180  
 agctccataa ccagccaaag ccttttccag tatgtgtaat gtttagcact tctttaagtt 240  
 tatcttttga ctctcttact tngttacccc ctaatgtact tcattgcaga ctttgaagat 300  
 aaatccaaag aagaaagata tagattcttt tgtggctgct gatttcaagc tcataggcta 360  
 tgatcctcac cagaagaatg atatgaagct gtctgtctaa natctgggga ttctcact 418

<210> 478  
 <211> 489  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 478

tcttcatgtc tctctcgta tctctaacat ctaggactca tgtgtttatc atagtaaggt 60  
 ggaagatggg tcccacatct atctactact ttacacggat gacatgctta tagcatccca 120  
 aaatttgttg ccaattttga ggatgaagtt actactctat aatgaatttg atatgaagga 180  
 catgggagtt gctgaaaaga ttctgggcaa ggagaataag atggatgaag tccagaagat 240  
 gatcttctgt gtcagaagga atacattcaa aaattgctaa attgttttgg gatggcatcc 300  
 gcaaaaatag tatgtactcc cctaataacg tccattcggt tatctatact caatactact 360  
 cagtcaaath tagagaagga atacatgtcg tgtgttcctt atgcaagtgt tgtagctagt 420  
 ctcatgtatg ctacaccana ccanacctaa cacaagaagt aatgggtgtga gtaagtatat 480  
 tggatttct 489

<210> 479  
 <211> 389  
 <212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 479

agcttcttag tttcagatga tgcagatggg tttgtagcta cctcatgcgc tcctctaattg 60  
actatggcat catttctggc gctaaactgc tgggagttgg aggccatctt ctcaattaaa 120  
tttctggctt cagcaggagt catgtctcca agggctccac cactggcagc atctatcata 180  
cttctctcca tattactgag tccttcataa aaatattgga gaagaagttg ttctgaaatc 240  
tgatggtggn ggcaactggc acatagtctt ttaaattctt cccagtactc atacaggctc 300  
tctccactga gttgtctaata acctgagata tccttctga tggctgtggt cctggaagca 360  
gggaannatn tttctaagaa tactctctt 389

<210> 480

<211> 504

<212> DNA

<213> Glycine max

<400> 480

cgaatcggtt cagttggaaa aaatcccttg tgcatagaaga tcaaaggata tgaacacaca 60  
aagatacatc accaaagaaa taaaataatg aaagatataa atttaaagca gatattcttt 120  
atctacattc acacaaacat ctaaacaata ttcactatct caaattttaa tttgacaatg 180  
aattacattt atcctctatt taataatgct aaaataacaa taaattgata tcttgacaga 240  
actataatta taataagagt ttaaataat tgtacattat catctactca tcaatcattg 300  
ttgttatgat ttttaaata atttttatca aagtcaacaa acttatatca tagatgatga 360  
ttgaatgata atgtaattctt acattatata atacttttct tcttataata acctatagca 420  
aggataaatg cacacattga tccgatgcac agattattag gatcattata tagtatggat 480  
tcattgggat gatcgatgat gctg 504

<210> 481

<211> 446

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 481

ntccacttgg cttctaactn ttgactctt aacttataac ttataagctt ttaattaagt 60  
 ttataagcta attgtactaa atataatctt aatagttaat ttggtttgat aaatttatct 120  
 taaatttaca ttttatttta aaagagtaat aacattttta cacccttttt ttctctccat 180  
 ctctctcttc ttattaaatc atattaccta tcttagatat actgtatact nttctttctt 240  
 ctctctcttc ttactcgaa gtgttcata aaacatgaat ctctctntat tntttattct 300  
 ntataaaaaat gtcattatta ttaatatctt tttctcttat gagtctcaat ataacctctt 360  
 ttgtcattta attaggagta ttttatttta caataattaa tataattaa tatgagagac 420  
 attcgccact ttttaatttta tcttat 446

<210> 482  
 <211> 499  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 482

cgcacttttt actaaggcag ttntataaaa tcgtccttgt tttagtgtca tataatctca 60  
 cttttggagt agtgccaatt gcaatctatg tttctattga agatccttgg ccctttgaaa 120  
 tattttcttg gcttagaaat agctaaatcc aatagaggta tctcactctc ccaaagaaaa 180  
 tacactatat ctctttttaga agatacaagt ttcttggcat gcaaaccttc caatcttcca 240  
 atggatccaa acttgaagct caatcttcat gatggagact tactccttga tcccttagtg 300  
 tataaaacgt taattggtag attaatctat ctaaccatat cacgtcccga tataacattt 360  
 ggtgtaaadc acttgagtca atatatgaaa gaacatagag tntgtcacct aaatggtgtc 420  
 catcatcttc tgcagtatct cacatctact ccaggacaag gtttattttc cctgctcata 480  
 actctctcaa attcactgc 499

<210> 483  
 <211> 474  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 483

gcttactcca ggtttcactt gacgtcttct ttctatgcaa tgacgttctc taacgtgaac 60



actnntcttt ttatttattt taattnttta tgattttatc taatgttatg gaatgtctta 120  
 atttgtaat atttattatt aaatttctta ttatatttaa gtgaagaaat taatgatata 180  
 tgtaaagtga taattatatt tgatttagaa ttaattntac ataagccaaa tgagtgaac 240  
 ttgtgcatag tgcatacccc taatttctta gtnntaataa ttaattattt ntgtcgacaa 300  
 tcgattgtct tatgtaaaaa aatcaatttt ataacataat cgttgattat caaattgatt 360  
 gtaaaaaaat tatttatcat ctctttntt cttntttca aacgtactat atttctact 420  
 tgttggtatt cattggattc ttttttttt tcttaatttc atctaacttg ttct 474

<210> 484  
 <211> 427  
 <212> DNA  
 <213> Glycine max

<400> 484

tctatccatg gcgttctatg gtggtgagct tattcttgac tcattctctt tatgaagtgg 60  
 cgtctgcaat cacctttcca ctttctccat tccgctgcca ttgatcttca agaagtaaag 120  
 gactccattg atgaagaaga tccaaggcct aaaagctcaa catggagcta catcactagt 180  
 agtacttggt ctttctcct ccctaagcct aactctcaaa aggagtagtt ctatttggtg 240  
 cctatactct tcaacactca tactcccttt tctaagcctt tggagcttgg ccataagctc 300  
 cctttcatag taggagggga tgcacctctt cctaagggtg gctttcaagt cattccaata 360  
 ctctactaga ggatcccatg aatccttctt ttcctaacaa gtgaagtcca cccatagagg 420  
 gcatacc 427

<210> 485  
 <211> 380  
 <212> DNA  
 <213> Glycine max

<400> 485

tgtgacattt gtcagcatca gatgtatagc gctatctcac ctgtaggatt gctgcaacct 60  
 cttgctattc cggaacaggt ctgggaggat gtatctattg attttatcac aggggttgct 120  
 tgttccagag gctatgaagc tattctggtt gttgcggaca ggctgaccaa atatagccat 180  
 tctgttccat tgaaacaccc ttatactgcc aaaggaattg ttgagatttt ctctgggaag 240

tactgatgct acatggagtt ccacaatctc tcgcgagtga tagagatcct ttatttatga 300  
 gtttgtcttg gaacgaacta ttttaatttac acgcgacaat gctcaagatg agtacaactt 360  
 accttccgca gactgatgga 380

<210> 486  
 <211> 480  
 <212> DNA  
 <213> Glycine max

<400> 486

taacataagg catgtgaagt ggggtggaatt cctagagcaa ttcccttatg ttatcaaaca 60  
 taaaaagggga aaaggtaata ttgtagccga tgctctttct cggcgtcatg cattactttc 120  
 tatgcttgaa acataattga ttggtcttga atgtttgaaa agcatgtatg aaaatgatga 180  
 aacttttgga gaaatcttta aaaattgtga aaatttttca gaaaatgggtt acttttagaca 240  
 tgaaggcttt cttttcaaag aaaacaaatt gtgtgtgcct aaatgttcta caagaaattt 300  
 gtcttggttg gaagcacatg aatgaggttt aatggggcat tttgggggtcc aaaagactct 360  
 agaaacatta caagaacatt cttataggcc tcatatgaaa aaggatgtgc ataaattttg 420  
 tgaacattgc attgtatgta aaaaggcaaa gtctaaggta aagcctcatg gactgatact 480

<210> 487  
 <211> 423  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 487

agcttctata gaagggttct tcctaatttc tcaacaattg cctcacctct caatgagctg 60  
 gtgaagaaga aggtggcatt tacttggggt gaaagacaag agtaagcctt tgctttgctc 120  
 aaagaaaagc ttactaaggc acctattcta gctcttcttg actnttctaa aacttttgag 180  
 ctagaatgtg atgcctatgg agtgggagtt agagetgtat tgttacaagg tgggcactct 240  
 attgcttatt ttagtgaana acttcatggt gccaccctca actacccac ctatgataaa 300  
 aagctntatg ccttaataag agccctccaa acttgggaac attaccttgg tgtcaaggga 360  
 atttgcattc atagtgatca tgaatcactt aagtacatta gagggcaaag caagttaaac 420  
 aaa 423

<210> 488  
 <211> 404  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 488

agcttctatg ttcaatttcg agcgtttcaa tatattatgt gcttgaatcg gacattcgtg 60  
 tgaaaagtta cgaccatttg aatttcttga gaacttctat tnttcaagtt caagtgcctt 120  
 tatatatcat gggcctcaat cgtatatcca tctcaaaagt tatggctcgtc tgaattggac 180  
 aagagctttc gtgttgaatt tcgagcgtct cgatatattg tggacctgaa tcggacatcc 240  
 gagtaaaact ttatgaccat ttgaatttcc ctataacttc cagtattaaa tatggagccg 300  
 tttgatatat catgggactt aatcgtacat tcatgttaat agttatggcc gtctgaattg 360  
 gactaaagct tctgcgttca attttgagcg tcttgatata ttat 404

<210> 489  
 <211> 495  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 489

tatacatact caagctcgca caggagtgtg aggtgatact gattattctt ttcaacaatg 60  
 actggccttc aattagtggg gattctgagg aagatgaata tggctccacg actggaaatg 120  
 aaagcaaagc gacgctgatg catgttccaa aagaacttgc tgaaattgac aacatggaga 180  
 acacgttcac caaactaact ctatcagcac tgcgtagctt ggaagaaatt atgggtagaa 240  
 gctcaactgt tagcattttc tcattgccta ctttgcataa ctaggctttg caactgcaag 300  
 aggattggaa aataaaatga ctgcactagc gactgcaacc aaataggtcc tcaggataac 360  
 atagatcttc tcgtgtttat cttcacatct atcttaatgt ttattagaan agaaatagac 420  
 acagaattta gacatgagtn gccatttata caagaggatc catctccctg tttaatggta 480  
 gatttcatat gaaac 495

<210> 490  
 <211> 357

<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 490

actcatttta tatatagctt aaggtgtggt tggtttgtat ttccattttt tgttttcatt 60  
tcctgtnttc agnttctgac actactagga aataagggtt ttacatcaat tatttaagac 120  
tttcaacatc ggttattaac cgatgttgaa agtcccgatg ttgaaagtaa tatcgttaac 180  
atctgttttt caaaatcgat ggtaactaat aaatacaaca ttgggtattt aaatagccaa 240  
tgttacatga taagaatttt gaanaaagaa atttataaat ttacatatca acatcgcggt 300  
atttaaaaac cgatgttaac tagcactaaa agtcaatggt aactgtcact aacaaca 357

<210> 491  
<211> 364  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 491

tgtaatcgat tacacaagtc ttgtaatcga ttaccagagt atattttcag aanataattt 60  
ccaagagtca catctattca aatgggtttat gaatggccat caaagggtcta tttatatgtg 120  
acttggaac acgaattatg agagagattt cattgccc aaagttttat cctctcataa 180  
gattaagaga gtttttctga attgaaatgt cttatcctct caaaaagata ccttggtcaa 240  
acacttgcatt attcgataag gaattttgat tgatcttcat tgtataatct atctctttca 300  
aggagatat cttcttctct tcttcttatt tctggaaaaa agggattaag agaccgacgg 360  
tctc 364

<210> 492  
<211> 442  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 492

ntntattgta atcttgagat tcaggacagc actctgattt ctgaaatatt tgggataaaa 60  
atggtcattg accagtcctt tttccatgac ttaaccaaatt taccagtgta cgggtgtacca 120

tttgaaggta cactgaatga cgactgaaaa tttgatttct ctgcccata gaagccag 180  
 ttgggttgca ccaacaatgc ggatatgacc ggaagctctt ttgcccgggtc attggctttt 240  
 gaaagccgca tccttcacta ttttaattgtg cgtattttgc ttccacgggtc ttccaacctt 300  
 gcccagggtt ctgaggaaga tctaattatc atgtgggcct ttcatacagg gtgtcaactt 360  
 gactgggcac acttagtcag atatcgcatg cataaggcat tgccaataaa tgctccatta 420  
 ccatatccac agcttgtcac tc 442

<210> 493  
 <211> 417  
 <212> DNA  
 <213> Glycine max

<400> 493

taacatcata tgaagccatg gataagagct tgtatgagga gatgatgagg ggaaggagaa 60  
 cgagagaatg agcacgaaat tttgtgcctc acatgagggtc tgaactttga agcgttattc 120  
 ccaaagatgc aaagttaaaa aaatgcacac gcatgacctc tatttatagc ctaagtgtca 180  
 cacaaaattg gagggaaatt tgaaattcta ttcaaaattt acttgaattt gaaattgaat 240  
 ttgtggagca aaatttttga gccaaaattt cactaattat gattagggga atttagctat 300  
 gggttcagccc actaatacaa gatcaagtcc aagattctcc actaagtgtg tttagggtgc 360  
 atgagacatg taaagcatga aggacatgcg caaagtgtga ctatatgata tgacaat 417

<210> 494  
 <211> 416  
 <212> DNA  
 <213> Glycine max

<400> 494

tagcttgaac tatatgagat ttgaatctaa ttttacttgg atcaacaata taatatatat 60  
 ttaatttata gttgaaaata cggaaaaaca agaattttga tctattgata acatcatatt 120  
 tacctccatc gcaatgttat aatagcttct agaacatgct catattgggt tcgtaatagt 180  
 tgatattgat ttactcatag agctgaatat aagaacaatt gtccggtttta aagtacgtga 240  
 tattctttat aaaataaaac ggtgggttata gttaatggaa ataataaaat taagaaatgt 300  
 actttattaa gctcgcaat caatagctgt atttaaaaca atatgtctat tacttgttgc 360

ataacttgcc acgtctgtct tetaactgta cttgaatatac taatgacgga tatagt 416

<210> 495  
 <211> 318  
 <212> DNA  
 <213> Glycine max

<400> 495

gtttttgccc aaatggagac actggatgtc tgctgtctc aagtcagcta gcatttctat 60  
 tcttatcaat ggcagtccta caaaggatat tgctcctact agaggtttga ggcaagggga 120  
 tccttttagcc cccttactct ttaatatagt tggagaaggc atcacaggat tgatgagggga 180  
 agcagttcag aagaacttat atataagcta tatggctgga aagaaaaagg aaccattaa 240  
 tattttgcag tatgcggatg acacagtttt tgtgggtgag gctgagtggg agaatgttat 300  
 tgttttgagg ctatgctc 318

<210> 496  
 <211> 433  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 496

agcattgcaa taatttcaat agttctatcg aacatatcaa tagacacgtc gttttttcaa 60  
 atattttgtg taggtaactg ttacacgtca attcttgtcc ccaaagatta tggattagag 120  
 attttaattt aggattccta taaataatat tataaagtta gaaacattaa aacaattgat 180  
 ttcagaaatt aatgtgaaag agattatgcc aaaattttgt tctggaacct ggataagatt 240  
 gctatatttt aaagtaaatt atattgtaaa ataatatcat ataaaggtaa ttttttattt 300  
 ggtaacatga aaactntata tgcaagtcaa aatccaaatt taaacatctt gtttctcaaa 360  
 taataataaa ctatattcca attttattaa ggggatcccc ttctgggata tatatatata 420  
 tatatatata tat 433

<210> 497  
 <211> 362  
 <212> DNA  
 <213> Glycine max

<400> 497

ctgcctttgc cctgatatat cttgaggact catggctact atgaatgaca aagtccttgg 60  
gataaaggta gtgttgccat cgtttcaaag cccgtactaa cgcatacaac ttcttatcat 120  
aaggatgaata gttaacggta tgaccactta acatttctact aaaataagca atcggatggc 180  
cttcttgcat caacacaggc ccaattccca catttgaagc atcactca atctccaaag 240  
attcttgaaa gtttggaac gcaagatgg cggcattagt tagctcttgc ttaagaacat 300  
tgaaagcttc ttcttggttc tctccccatt tgaaaccaac aattttcttg aacacttcat 360  
tg 362

<210> 498  
<211> 225  
<212> DNA  
<213> Glycine max

<400> 498  
agcttttcac tcggatgtcc gattccggag cataatatat cgagacgctc gaaattgagc 60  
aacggaagct cttgagaaat tcaaatggtc ataactttcc acatggatgt ctgattaaga 120  
cgcataatat atcaagatgt tcgaaattga acaacgaaag ctctcgagaa attcaaatag 180  
tcataacttt tcaactcggag ggtccgatca tgcgcataat atatac 225

<210> 499  
<211> 484  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 499

ngctataata ttagttaaaa aatagtttat gaaatttatc acatattatt tttataaaat 60  
aatcatacaa acattcatgt cataagataa aataacttaca aataaatctc aaacatatat 120  
aattttgtct ttataattaa taatttatgc tattgattta tgaaagtttg tgtatatgta 180  
acctaactta atcttaaatt catcaattac aactatattt gataagacat ttcagttaat 240  
ttttaatttt tttcactagc taaaaaattt gtttgactat ttagaaaaca agtttttttt 300  
aatagtttct aacatttttt caaactattt gaagtaacat tntttaaaac cttagatttg 360  
aaattctaac tttntatatt ttttttcatt gttatactta atatatttat ccaattntct 420

agttaccatt ttttaagaga tcataattgt attattngtc aatcatttta tttttttcaa 480  
ctac 484

<210> 500  
<211> 471  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 500

gtatggctcg aaacatgcac cgaggcagag gtacaagaag tttaatgagt ttatgagcaa 60  
ctcaggattc aaaagatgtg acatggacca ttgctgctat gttaaaaaat atactaatag 120  
ttatgttata cttgctgtgt atgttgatga catgttgatt gcaggatcta gtatggcaga 180  
aattaacagg ttgaagcagc agttggcaga taactttgaa atgaaggatc ttgggccagc 240  
taaacaaatc cttggtatga gaattcttag aaacagatca gaaggaattt tgaagctgtc 300  
tcaggagaaa tatatacaca agttgcttga caggttttac cttggagatt ctaagaccag 360  
gaatacccct ttgggatctc atttgaaagt ttcaaagaag caatcttttg agacagatga 420  
agaanaatgg tacatgtcaa gattaccata tgcacagca agtgggagtt t 471

<210> 501  
<211> 363  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 501

ngctaaccg tggaagctcc taatatctcc cacacctttt ggtgtgggcc attcttggat 60  
ggccttgatt ttcttagggc ccacttggac tccatttcta ccaactacaa accctaagag 120  
aactatatta tctacacaaa aggtacctga aagaacctgc ctgagatgtc ctaagtgtac 180  
atctagactc ctactatata ccacaatata atcaaaataa ataactacaa atctaccaat 240  
gaaatccctt aagacatgat gcataagcct catanagggtg cttggtgcat tactgtgccc 300  
aanaggcatc actagtcatt catacaaacc aaacttggtc ttgaaagcgg gtttccactc 360  
atc 363

<210> 502



<211> 453  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 502

agcttcatgg aacatttatg atactgatgt aaattcaggt cttcatgggt ntacaaaaat 60  
 catagttggt gtttaggcgg ttatcggtat caaaattcta gaatgctttg taaagatggt 120  
 catcaagtcc aagtctgtgc ctatgcattg tagtcgaaat gaattcaaga tagtcaattg 180  
 acccatttcc gtcaacatca gcctgaggaa aaaatataca tgtcttgcaa attgaaacaa 240  
 ttaggaacaa agcanaaatg catgacaaca aaaaatagta taaagatata ggaaatatca 300  
 tagtttaatc acaacattaa aaaaggctnt agctagagcc tacataataa taattataat 360  
 aataataata ataacaacga agcanacatg cattacaaca naacaaaatt aagaaataat 420  
 aaatatcagt gttaactcct attgtcaca cat 453

<210> 503  
 <211> 385  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 503

tgtctcgggt gacgaanaca atagaataag cctcttcgag cttttcacag gcgtcaacga 60  
 ttcgaagaat gaagggctctg tgtttgaggg tggcgatgag gtggaggaca acctcggtgt 120  
 cataggtggt gttgaagatg gagccgttgt cttegagggt ggttcggagg gtcttatagt 180  
 tgacgaggtt gccgttgtgg gccacgccga ctgagccgaa gcgtaaccg gcgacaaagg 240  
 gctggacgtt tttgagcatg gataggacgg cggtggagta tcggacgtgg ccgatggaga 300  
 tgctgccggg gagctggctg agttttgatt ggttgaagac ttcggagacg aggccaacgc 360  
 cggtgatgga ttggaggacg ttggt 385

<210> 504  
 <211> 296  
 <212> DNA  
 <213> Glycine max

<400> 504

agcttgagga gcttgcttta gccatatag agctttattg agtctaaaaa cacgatgtgg 60  
aagagtgtta ctctcaaacc ctgcggggtg ctctacatag actctctctt gcattagtcc 120  
attgaggaat tcactttttac atccatttga agagtctcat atgtatgagc agcaatgacc 180  
tatagtgtat gcctccggtg acaacaagag tgaagttatg tatatcatatc ctccctttata 240  
aaaccttttg aacaaccttg cctgttgtac atactaactt cctataaagc tatgtc 296

<210> 505  
<211> 470  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 505

agctataggg tagaatttag atccatggac taagtatgag tctgcttatac tttgtacata 60  
ttaaattgag attntattat ttttttgggc cttatatcca gggattcaca gtgtagggag 120  
ggtatcctag taatatagga tttttcagcc tttgtatttt agggcaccta gactagtttt 180  
tgtattatgg gtagttttat aatttcacat gcattaagtg tattatttga tgtgtgtgtt 240  
gngagagaaa ttttaattgaa ttgcaagaag ctcaatccaa ttaaatttta gaccagccta 300  
agggggaagt gagcatttgt ttgttacacc tcattatcac atcatatagt cacactttgt 360  
gtttgtcctt catgctttac atgtctcatg gcacctaagc acacttagtg gagaatcttg 420  
gatttgatct tagattagtg cgctgaatca tagctgaact cactaatcat 470

<210> 506  
<211> 455  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 506

tcattctaca nectgaaaag aggatgagat agttgcacga aagagaaagc ttcctaacta 60  
aaattttcat gcaagtggac cttcttctag taattctgac ttaccgcagc cttttatccc 120  
tcttcaattc ccacctagag caattccaaa caaaaaaat ggaagaagca gaaaaggaga 180  
tcttgagac cttcagaaaa gtagaggatga acatacctct gctagatgcc atcaagcaga 240  
ttccaagata tgccaagttt ctaaaggagc tgtgcaccca caaaaggaag ctcanaggca 300

atgaaaggat tagcatgggc agaaatgtgt cagcattgat aggtaaattt gttcctcaca 360  
 ttcttgagaa atgtaaggac ccaggtaactt tntgtatacc ttgcattatt gngaacaata 420  
 aatttgagaa tgacatgcta gatctaggag catca 455

<210> 507  
 <211> 439  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 507

tatcccctaa tgcacctatt ccattcctcc catggtcac atcaccataa acagctataa 60  
 cctctctcca gccaaagtag ttaacaaagt ctgctattgc agtcatttca taaatgtcac 120  
 taaaagcagt tctaataaag aatgggaatt gaagtgaaga aagagtaggg tcagtggctg 180  
 taaatgatag tagaggaact tggagctcgt tcgctatatg agatatgaca tgagctgttg 240  
 tagacgtctg gngaccgatt atagccacag tttgtgttgc catgagctgc aaggctatta 300  
 cacacaattt atgtaaacca agagtaataa tctgccaaac tntgaagtaa cttgtcta 360  
 aganaaaaag atgcttttaa agttttaaca cataaaaaag atgggaatat tgtgaaggac 420  
 gtaccctctg caatgctca 439

<210> 508  
 <211> 493  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 508

tccatgaatn tcttgggtacc agacctagca attgtaccca agttgctcac catatctgaa 60  
 aaaaaaaca taacaaaaat gaattagaga ctaaccaggt aaacaaaaaa attgggtccac 120  
 aaatatctca ataaaagaac atctcaacct accagctttg gtcatgccaa taccattgtc 180  
 aacaatggtt agcatattgt tagtcttgtc aggaataata tgaatgaaca actatggcta 240  
 agtatcgagc ttgctcttgt ccgtcaaact ctcaaacta gtcttgtcca aagcctanaa 300  
 ttttacatac aaccacataa ttaattaatc tttcaaaaca aatcaactca agaagaagac 360  
 caatattaac acaaccacac atcacactaa aaaaattcag tggcagggta caacatttca 420

atcataattc atctcccaac gtaaccaatt cactcctaca aaataaatta gatgtcacta 480  
attcactatt cac 493

<210> 509  
<211> 436  
<212> DNA  
<213> Glycine max

<400> 509

gtaacctcta agatcatatc atccacaaag aagaggtggg aaacttaggc atctcctccc 60  
ttcccaaagt agaaagggtt ccatcaacta ttgtgaatag aatccaaaat cagatgagca 120  
agtctctgca tgtagagcac aaaaaggaga ggaaataagg ggtctccatg acaaaggccg 180  
ctggacaatt tgaaggaatc gataagagat ctattccagc tgatggagat gtttgtccaa 240  
ttgatgcaac gagagattag ggagaacatc cgagaaggaa gaccaagggt ttggagggta 300  
tcgatggtga aatcccattc aatatgatca aaagcctttt gaaggctcag cttcaagatc 360  
atgtagcaag gcttactagt attatgctct agagaatgaa caagctattg gatgataaca 420  
taattgtcca taacac 436

<210> 510  
<211> 486  
<212> DNA  
<213> Glycine max

<400> 510

tcttagtctc agctgatgaa gatgaattct tggctacttc atgcactcct ctaatgacaa 60  
tagcatcact tctggcacta aattggtggg agtttgaacc catcttctca attaaatttc 120  
tggcttcagc aagggtcatg tctccaaggg ctccaccact ggtagcatct atcatacttc 180  
tctccatggt actgagtcct tcataaaaaat attcgaggag aagctgctca taaatctggt 240  
ggtaagggca actggcacat agtttgttaa atatctccca gtattcatat aagctctctc 300  
cactgagttg tctaattgct gaaatatctt ttctgatggt cgtggctctg gaagcacgga 360  
aatatttttc taagaatact ctcttgaggt catcccaaca cgtgatggac cttggagcaa 420  
ggtaatatag ccagtcctct gccactcctt ctaaagaatg acgaaaggcc ttcagaaata 480  
tgtgat 486

<210> 511  
 <211> 457  
 <212> DNA  
 <213> Glycine max

<400> 511

ctacagcaca tgccactatt cttcaagttc ttaaaggata tgtaacaag gaaacacaag 60  
 tatattcatc acgaaaacat tgtcgtggaa tgaaattgta tcgttgtgat tcaaaagatc 120  
 cttccaccta agcataaaga ccttgggagt gtaaccattc cttgttcaat tggagaagtc 180  
 actatgggaa aggctcttat tgatttggga gccagtatta atttaatgcc actctccatg 240  
 tgcataaggt tgggagagtt ggagatcatg ccactaaga tgactttaca acttgctgac 300  
 cgctccatta ccagaccata tggagtaatt gaagatgtgc tggtcagagt aaaacaattt 360  
 atcttcttga tagactctgt ggtaatggat atctgtgaag atattgacat tcctgtaata 420  
 ttggaaggcc attcatcgta aactgtgagt tgatagt 457

<210> 512  
 <211> 200  
 <212> DNA  
 <213> Glycine max

<400> 512

tcagtgcctt cacacacaag ggtctactaa tttggttgct attccgttgg aggggtattac 60  
 ggggggttgct gatcttgatg agagaaagtt agttgcatat ttgacagca agattgttcc 120  
 tgtgccaag gctgagggaa ctgagtagct agcttcaaag caaaagcctc catttggacc 180  
 aacgttcatt ggagcagctt 200

<210> 513  
 <211> 455  
 <212> DNA  
 <213> Glycine max

<400> 513

agctttgagc caattcaaac gacaataact ttttactcgg atgtctgatt gagtcccgtg 60  
 atatatcgag accgtcgaaa ttgaatattg aagctctaag ccaagtaaaa cgacaataac 120  
 gttttactcg gatgtctgat tgagtccgt catataccga gacgctcgaa attgaatgtt 180

gaatctccga gccaatccaa acgacaataa ctttttactt ggatgtctga ttgagtcctg 240  
 caatatatcc agaccctcga aattgaatgt tgaagctctg agccaattca aacgacaata 300  
 acctttttac tcggatgtct gattgaatcc cegtatataa cgagacgctc gaaattgaat 360  
 ggtgaagctc ttgaccaatt caaacgacaa taacttttta ctcgatggtt tgattgagtc 420  
 cccgcatata tcgagaccct cgaaattgaa tgggtg 455

<210> 514  
 <211> 229  
 <212> DNA  
 <213> Glycine max

<400> 514

acaccataca ctactcaagc ttgaaattga acaacggaag ctctcgagaa attcaaattg 60  
 tcataacttt tcacacggat gtccggctca ggcttataat atatcgagac gctcgaaatt 120  
 aaacatcgaa aactctcgcg aaattcaaatt ggtcataaat tttcatagcg atgtccgatt 180  
 cgggcgcatac atatgtcgag aagcttgaaa ttgaacaacc gaaactctt 229

<210> 515  
 <211> 631  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 515

agcttgcatt gcgttggagt atacatccac cttttaagta tttgacgaag agaaatattg 60  
 tgaaatagaa acaaacttat acaaataatc agttcccaga tttctaaaga ttggacaaaa 120  
 aaggattaaa aataaaaaaa ataaaacaaa aaacattggt tagatttttt taacgcgtac 180  
 attattttat atatcatttg ggtaaaaaaa ttatatattgt attatttggg taattttttt 240  
 tgtattaaat aggcaactatt agaaaatatg ctgttcacat ctgttattta tgacgttcta 300  
 cattggttat taaccgatgt tgaaagatta tagttaacac cggcttttta aaaccggtg 360  
 taatgtaaaa ttgacacatc ggtatttaac aaccgatgta tataataaga ttacaccaa 420  
 aacatatgaa tgtgatagtt acatcggtna tacaacaaat gatgtaactt tacataaaag 480  
 aggttttata aaataatgta acgatacgta acatggtttg ataaaccgag gtacttcaaa 540  
 gtacattatt tataaaaacc gaatggatag gattttttta aaactttttt tttaaaaaa 600

accaaataac ccggatttaa accaccccc c

631

<210> 516  
<211> 201  
<212> DNA  
<213> Glycine max

<400> 516

tcggtattct atttcgagcg ttccgataaa ttatgggact caatttgaca tccgagtaag 60  
aagttattgt cgtttgaatt tgctcagagc tttggcattc catttcgagc ttctcgatgt 120  
attacgagac tcaatcggac atccgagtga aaacttattg tcgttcgaat ttgctcaaag 180  
cttctacatt caattttgag c 201

<210> 517  
<211> 207  
<212> DNA  
<213> Glycine max

<400> 517

taacaaaagg catgcgaagt ggggtggaatt cctagagcaa tttccttatg ttatcaaaca 60  
taaaaagggga aaaggttaata ttgtagccga tgctctttct cggcttcattg cattactttc 120  
tatgcttgaa acaaaattga ttgggtcttga atgtttgaaa agcatgtatg aaaatgatga 180  
aactttttaga gaaattttta aaaattg 207

<210> 518  
<211> 477  
<212> DNA  
<213> Glycine max

<400> 518

agcttgaagg tgtgtagccc accatctttt tatattagaa tactgggaat gtgtctacta 60  
tcattggcat cattttttct ctggcattga ggagccactt gagctgcca gttctctccac 120  
ctttgggcgt attcttttga aagatttggtg cccccctttt gcacatgttc tatagttgct 180  
cctatccgaa gacattatac tgacactggc taacgaaagc aaccactaag tctttccaag 240  
aatggactcg ggaaggttcc aagttagtgt accaagtaat agctaccca gtaagacttt 300  
cttgaagga atgtattagc aattcctcat cttttgcgga tgcccccgtc ttccgataat 360

acatctttag atgggtcttg gggcaaggta gccccttgta cttgtcacag tccacacct 420  
gaacttgga ggggtgatga tattgtgtac taggaacaac tcttctaagt tagcaaa 477

<210> 519  
<211> 206  
<212> DNA  
<213> Glycine max

<400> 519

agcttgataa tggaagacac atgaacagct cttgcaataa cattcatggg gctccgaaaa 60  
atgggtgagaa tggaqgattg cctttgaggg cctcacttat gcaatcatga aacacaactc 120  
ccaactcgaa agtggaggac acatgaccag ccctaagcaa taacattcat gtggctccca 180  
aaaaaggatga aaatggagga ttgcct 206

<210> 520  
<211> 449  
<212> DNA  
<213> Glycine max

<400> 520

aagcttgcca accatggaag ccctaaatct tcccactttt tggggggggc cattcttgga 60  
tggccttgat tttctcaggg tccacttgga tcccatttct accaactaca aaccctaaga 120  
aaactatatt atttacacaa aaagtacact tctgtatatt tgcatagagg gtgttttttc 180  
taaggactga aaaaacttgc ctgagatgtc ctaagcgatc atctaggctc ctactgtaca 240  
ctaaaatata atcaaaataa acaactacaa atctacctat gaaatccctt aagacatgat 300  
gcataagcct cataaagggtg cttggggcaa tagtgagccc caaaagcatc actaaccctt 360  
catacaaacc agacttggtc ttgaaagcgg gtttccactc atcacccttt ttcactctgat 420  
ttggcgatcc cccttttaag atcaatttt 449

<210> 521  
<211> 240  
<212> DNA  
<213> Glycine max

<400> 521

gggatcttaa gtgaccgcgg ctgcagcttt taacattaaa tgggtataact ttactcggga 60



ggccggaatt aggcgcataa tatatcgaga cgctcggaat tgaacaatgg aagctcttga 120  
gcaattcaaa tgggcataac tttttactcg gatgtccgaa tcaagcgc ataatatcg 180  
gacgctcgaa attgaacaat ggaggcacc aagaaattaa atgggcaaaa acgttttact 240

<210> 522  
<211> 205  
<212> DNA  
<213> Glycine max

<400> 522

ctttgatgta acatttggag aggttaatga aacaacgtat tatgatgcgc tccatgagag 60  
gttggatcaa atggagaata gagaccatat gaattgctca agagcttcca ttgttcaatt 120  
tcgagcgtct agatatataa tgcgcctcaa tcggacctcc gagttaaaag ttatgacct 180  
ttgaaatgct caagagcttc cattg 205

<210> 523  
<211> 485  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 523

agctntgaaa tccaaagatc taatccaagg tatatgtttc ataaagggga ttcccttact 60  
tgtgctattc gagtgcaacc tattctttta taccctattc gtgtgtaggg aaacttaagc 120  
tttttgtgtc ttcttttaaat aaagatatgg tgggagaaac cccaactagc ggttttgtgg 180  
taatttctaa tgggggggttg aattggcctg tggaaatttc tggtagaaca ttaatgattg 240  
atctaatttg ttggcctttg agccaaattg atgggtattct gggtagggac tgggtatctt 300  
ccaaccatgt cttgttaagc tgctttgata aaactatggc ggttgatggc tctagagtga 360  
gtaaggatat atatggagaa gccagcttca tgatgaatca agattgattc aaagaagttc 420  
tgatgatgac aaaggtgatg acaaaaagct caacgaccag aacaattaat gatacaaaga 480  
tgatg 485

<210> 524  
<211> 424  
<212> DNA

<213> Glycine max

<400> 524

tatttcactc aagccagccc catagaactt tggcataaga gacttggcca ttgtcatatt 60  
caaagaatgt tgaacatgaa gaagaaagac atgaccagaa gtctaattggg gttttctcgc 120  
caaattgcaa tgcttggcag tttggtaaac aaaatagaat gccatttccc aaatcaactt 180  
ggagagcctc tcaaaagatg caactaattc aactaatgt ggcagaacct caaagaacac 240  
catcactaca agggagtcca tactttattc ttttcataga tgattttaca agaattgtgtt 300  
ggattttttt cttaaaattc aggcattgaag tggctagagt atttataaag gttaaagaag 360  
atggtggaaa ctccaagtgg ctgcaagatt caagttctaa gaaccgataa tyygaaggaa 420  
tata 424

<210> 525

<211> 449

<212> DNA

<213> Glycine max

<400> 525

agctttttgt tgcgttaaatt ttcttaaatt ttatcacaaa ttcaaacct taagccaccg 60  
ggccaacaat agaattctttt tattgctttt tttctaaagt tggcacaaaa aaacagatgt 120  
tcaattatgt gggtagataa ttccaccaac aaaattattt gttaaagtta actcaatctc 180  
tcacagtagc gtaagatcat attatattta tatgtggaaa aacaatttat ttaataaaaag 240  
aaattatatt taacttttat cgcatgtaaa actttattta attaacgacg aatatgccat 300  
tgcaacggaa ttaatctatg accaatgat ttgaaagata tctatgattt ctgatttagg 360  
ttaattaaaa aaggaaccaa ttcatatttt taattattta taacttatat taactaaggg 420  
aataaaaatt tcaattctat tctcatttg 449

<210> 526

<211> 204

<212> DNA

<213> Glycine max

<400> 526

cttggaat atgctgagga gtgcgttatc tgcgataatt gatgaaatgt attcaacttt 60

cataaaggac agacatatcc ttaatggaat tctgacccctt aatgaagtgg ttgaggaaac 120  
 tttgaagaga aagaagccag ttatgggtttt caaagcggat ttctaaaagg cctatgattc 180  
 tgtatcttgg tcttttttgg atta 204

<210> 527  
 <211> 212  
 <212> DNA  
 <213> Glycine max

<400> 527

tcaagctttt ggaatataag ctgaggagag tggtatctgc gataattgat gaaaggctctt 60  
 caactttcat aaaggacaga catatcctta atggaattct gatccttaac gaggtgggtg 120  
 aggaaacttt gaagagaaaag aagcctgttc tggttttcaa agtggatttc caaaaggcct 180  
 atgattctgt atcttgggtct tttttggatt ac 212

<210> 528  
 <211> 201  
 <212> DNA  
 <213> Glycine max

<400> 528

tgtgaccatt tgaataactc aagagcttcc attgttcaat tttgagcgtc tcgatatatt 60  
 atgcgcctta atcggacctc cgagtgaata gttatgacca tttgaataac tcaagagctt 120  
 ccattgttca atttcgagcg tctcgatata ttatgtgcct gaatctgacc tccgagtga 180  
 aagttatgac catttgaatt t 201

<210> 529  
 <211> 583  
 <212> DNA  
 <213> Glycine max

<400> 529

tcacttcaat tgggtgcatgc taatatctgg ggaccatcaa gtacccttag ctttgggtgga 60  
 agaagatatt tttccctctt cgttgatgac tacacctgaa tgatgtgggt gtacttcac 120  
 caacaaaaat ctgatgcatt ctctagcttc aaggagtaca aggccttagt ggaaaagcaa 180  
 agtgggcatt cctcaaaaat cttgagaaca aatcgtgggg gagaattcaa tgggcacata 240

ttcatcaatt tttgcaatga tcatggcatc aagaaggagc tgactgttcg tcacactcca 300  
 caacagaatg gtgtcgctga aaggaaaaat agaaccattg tggaaatggc ttgattgatg 360  
 ctacaacaca agaacctgcc aaagaatcta tgggcgaaag ctgttagcat agcagtatac 420  
 attctcaacc gttctccaac taaagaaatc ttaaatttga cgccatatga agcatggttc 480  
 aacagaaaac caacagttga tctttttaaa gttttgggat gtgttgctta ttcgcacttc 540  
 ccaaggagaa ccgattaaag ctttttgaaa aaggagaaaa atg 583

<210> 530  
 <211> 375  
 <212> DNA  
 <213> Glycine max

<400> 530

tcaacattca attttgagcg tctcggtata ttacgggact ctatcagaca ttcgagtgag 60  
 gagttattga cgatcggatt ggctcaaaga ctcaacattc aatgtccagc gtatcgatgt 120  
 gttactggac tcaatcacac atccgagtaa gaagttattg tcgatcgaat ttgctcataa 180  
 cttcaacatt caatttcgag cgctcgctc tattacgggc ctcagtcaga catccgagta 240  
 aaaagttatt gtcgatcgaa ctgggtcaaa gcttaaacad tcaatttcga gcgtctcgat 300  
 ctatcagag tgtctttcgc acatccgagg ccagaggaat tgtccccaga attggcgtag 360  
 atgctgacat tcaac 375

<210> 531  
 <211> 450  
 <212> DNA  
 <213> Glycine max

<400> 531

agcttagagc caattcaaac gacaataact ttttactcag atgtctgatt gagggccgtc 60  
 atatatcgag acgctcgaaa ttgaatgttg aagctctgag ccaattcaaa cgaccataac 120  
 tttttactcg gatgtctgat tgagtccgc catatatcga gacgctcaaa attgaatgtt 180  
 gaagctcaga gccaatcaaa acgacaataa ctttttactc ggatgtctga ttgagtcccg 240  
 tcatatatcg agacgctcga aattgaatgt tgaagctctg agccaattca aacgacaata 300  
 actttttact cggatgtctg attgagtcct cgaatatatc gagacgctcg aaattgaatg 360

ttgaagctct gaaccaattc aaacgacaat aactttttac tcggatgtct gattgagccc 420  
 cgtcatatat cgagacgctc gaaattggaa 450

<210> 532  
 <211> 571  
 <212> DNA  
 <213> Glycine max

<400> 532

agcttatggt aaaactaaca gcaatggaaa gtacagtttc actggtgaag gctttgacta 60  
 tgtgaaaaat ggagcctcag actgcaaggg taaactccat gctccttcta aggattcacg 120  
 ctgtttcata cccaccaagc ttaatgaggg aaccaaacty aaggtgaagt ccaaggataa 180  
 aatgaaggt gcgctcagag ctttaaccatt tgcttatgct cctgaaaagc catatgattg 240  
 cgaaaagtc aatccaagc ctttccttac ttcttatgac aaaccatatt attagaactc 300  
 taccacccc cctttaccct taaccgaccc acaccctcct tactactata agtcaccacc 360  
 tccaccacca tcaacatact attacaaatc tctccccca ccttcttatt actacaagag 420  
 cctttcttca ccatcaccat caccttctcc atattactat aaatctcccc cgccaccatc 480  
 accatcacca cctttaccct actactatta aatctcccct cctccccaca aagatccata 540  
 ccatcctcct tactactaca aggcacccct c 571

<210> 533  
 <211> 586  
 <212> DNA  
 <213> Glycine max

<400> 533

tgatgatggt attaaaggct ttgcactacc tctggcagta acagtgacaa agatgatcat 60  
 aagtacgttt acaacttgac atcaaatttt acttgagatt ttataatttc tgatacttgg 120  
 ttcacttggc cataacagtg gggagcaatt gatggaagat gaatctcaa ttgatctaag 180  
 gagaaggaag aaacttgctc ttgatggtga tttggaaaga caaatcaaag atctccatga 240  
 gaagtaggtt tgaccagatc aaacttttgt ctgaactttg gagcatgatt taaattagag 300  
 ccttgctcaa aagaaattca gtctttttta tttcattttg tttacatcat tggtaaaaac 360  
 attcttaaaa ggagtgaagc agatagatca attcatagct tttcaatatt ttgttgaata 420

tcattatttg tactgtatth caattcatag cttttcttgt actaatttaa cccgagttta 480  
ataaattcca aaaattaaaa aaaaaatctc catattctac atcggttcaa ttataaacga 540  
tgtagaacat atctctattc tacatcggtt aggcaataaa cgatgt 586

<210> 534  
<211> 367  
<212> DNA  
<213> Glycine max

<400> 534

ctaagctctt actcggatgt ccgattgagt cccgtagata tatcgagatg ctttttttga 60  
aatagtagc tcttagcaaa ttctgaaccat aataactttt tactcggatg tccgattgtg 120  
ccccgtagta tatcgtgacg ctctgaaattg aaaacataag gtctgagcaa attcaaactg 180  
caataacttt gtactcagat gtccaattga gtcccgtaat atatcgagat gtcctcaaatt 240  
gaaaatagta ggttcttgca aattcaaacc ataataactt tttactcgga tgtctgattg 300  
agtcctgtac tatatcgaga cgctcgaaat ggaaaaatga ggctctgagc aaattcaagc 360  
gacttta 367

<210> 535  
<211> 644  
<212> DNA  
<213> Glycine max

<400> 535

tatcaatgca aggaattaac acaagacttg agactagaat tgaaaaattt tacactcata 60  
aaaactaaat taatattgaa gtctttatga aaatttataa cattctcatt taaccttaat 120  
ttttattaaa ataaagtcta tctgaatgaaa tattttttat ccctactatt tttttctagt 180  
tccttctccg tttcaaacta tatattatga tagttttaat tattggattt ttaaattttg 240  
taggtgtgat tgttgaactt atgtgttata ttgcaaatth taaatcatat tgaactttag 300  
cctatgtgat aatgataata ataatacaat tcttcttgat ttttgctttc actcaaacta 360  
aattttgatt ggattgaatt acagatttta tcaaattcaa cccagatacc cacctatatg 420  
attgatgaat gttgacaaga tgggtctaac tatttttaaat atgtaatgaa tattagttcc 480  
tcttttactt gagtgtctaaa gtccggatca gaggaaaatg attacatatg accctggatg 540

tcagtatcta gatataatcaa caaattatat aaaacagcag gacataattt ccattaaaaa 600  
 atatatgttt tattaaatta agcagataacc atagctttaa ccca 644

<210> 536  
 <211> 470  
 <212> DNA  
 <213> Glycine max

<400> 536

tgacaggttt aggtgcaggt gctgctactg gtggaggcac ttgaatttgg ttgccagacc 60  
 tcaaggtgat ggcactcaca tttttcggat tctgcacagt ctgtgaagga aatttgtcaa 120  
 aattttggga ctgagcttgg ttcaactgag tagccatctg cccatctgat ttgtcagact 180  
 ctgaatggag gctcttggct cttgctgaaa ttgcatatc ttggaaggta ttttccttac 240  
 taactcctct aaagaagggt gaggaggagc ctgagttgct tgttgtcttt gttgtgaccg 300  
 gtgttgttgc tgctactgta ttggaggggg aacatatggc ttgctttgac cccaccatt 360  
 ttaaaaaaga gggacacatt gttgttgttg ttggaagacat ttcctctca aatttgatg 420  
 attccttcaa cctggattgg atctatttct tgaaaggcca taattattct 470

<210> 537  
 <211> 555  
 <212> DNA  
 <213> Glycine max

<400> 537

gggttaaagt ctcacgattg tcacatgctc atgcaataat tgttagtcgt ggctatacga 60  
 gacatcttgc caaacaagt caggttagcc ataactcgcc cgtgcttttc cttccatgct 120  
 atatgtagca aagtcattga tcctgtcaag tttgatgagc ttgaaaatga ggccgcaatt 180  
 atactgtgcc agttggagat gtattttccc cctgctttct ttgacattat gattcacttt 240  
 attgtgcac ttggtcagaga aatcaaagt tgtggtcctg ttcatacaca taattcaa 300  
 tcattaatat gtaatgcata tattggatga aagctttgaa aatggaactt atggcagttc 360  
 atcttaaatt gttgcaggta ctcttacttc ttcggatact gttcattctt ccaagcaggt 420  
 actcttctt cttcagatat tgttccttct tcctagtgtc taattcttga ctcatcttgt 480  
 atgggtgtact atatgatgat gtaaatggga atatggtttc taaacagttt ttatacccg 540

tttttgttta tgttc

555

<210> 538  
<211> 369  
<212> DNA  
<213> Glycine max

<400> 538

tctgttggtc agtttcgagc atctcgatac attatgcgcc ttaatcggac attcgagtga 60  
aaagttatga ccatttggat ttctcgagag ctttcgtagt ccaattttga gcatctcgat 120  
atattaactc cccgaaccag acatcggggg gaaaagttat gaccacttga attctcgaga 180  
gcttcgggtg ctttaatttcg agcttctcga tatgttatgc gattalatcg aacatccgac 240  
ggagacgcta tgatagattt aaattctcga gagcttccgc tgatcaaata cttagcgtcaa 300  
gatatgttgt gcgtctgaat cggacatctc agggaaaagt tctgaccatt tgactttctc 360  
gagagcttc 369

<210> 539  
<211> 337  
<212> DNA  
<213> Glycine max

<400> 539

agcttgagat tgatcaacgg aaagtctcga gaaatacaaa tggtcataat tttcactcac 60  
aagtctgatt caggcgccaa acatatcgag acgcttaaaa ttgaacaacg gaagctatcg 120  
agaaattcaa atggccataa catttcactc ggatgtctga ttaagccaca taatatatcg 180  
agacgcttga aattgaacaa cggaagctgt caagaaattc aaatgctcat aacttttcac 240  
tcggatgtcc gattcaggcg cataatatgt ttagacgctc gaaattgatc aacggaagct 300  
ctagagaagt caaggggtca ttatttttca cacggat 337

<210> 540  
<211> 353  
<212> DNA  
<213> Glycine max

<400> 540

gaaagacagt gaagtgtctt aagactgaca atggcttgaa attctgtaaa ggtgaaggca 60



ttgcaagaca gtgtgttgta cactatactc tataagtagaa tggagtagtt gaaaaaatga 120  
 acagaacctc gttagaaagg gccagatgca tactatccaa tataagggtg aataggagtt 180  
 ttgggggctaa ggtagttagc acaacatgtt atctcatgaa ttgctcaccg tccactggca 240  
 tagatttcag gacccttatt gaggtatgat ctaacaaact tacttaatat tcaatgttga 300  
 agatgggttg atttcccaca tactatcatg taaataaagg taagctagag ccc 353

<210> 541  
 <211> 624  
 <212> DNA  
 <213> Glycine max

<400> 541  
 acctacagaa actaagctta ttcagctgcc ctgctcgacc aagcatatcc accacacaag 60  
 cataatgctc taactttggc tttacgccat acaaactctg catttgacca agatatttta 120  
 atccttctgt tactaagcca gcatggttac aggcaattag cactcccaga aatgtaaaag 180  
 aatccggtct gcatccttta ttttgcatta atccaaacag ctcaatagcc ttcagcacat 240  
 gtccatggat accatatect gcaattataa cattccatac tgcttcatcc ttctcattta 300  
 ccctgtcaaa aatgttccga gattgttcca agcatccaca tttagcatac atgtctttta 360  
 atgcacaagt aacaaagtta tcttcagaaa gacgaggttt cattgcaaag gagtgaactt 420  
 ctttccccag ccgcaatgca tccacattta atctcggtat tatattgtat tatttgaagc 480  
 tattgaaagg aaaaattgga aaaaagatag tacctttgta gtaagaggtt gtaaaagcaa 540  
 aaagcatctg aagagtccgc attgaaatgg agacagacta cgagcaacga caccaaagca 600  
 ggaggaaaaa ttgcatacca aaaa 624

<210> 542  
 <211> 380  
 <212> DNA  
 <213> Glycine max

<400> 542  
 agctttttatc aatattaaaa catcttactc ttatcaaagc acatgtaact tataagtctt 60  
 gaataactct attaccaatt aagcaagatt gtttgcacag aagaaaatca acagataata 120  
 accatataac agcaaacttg ccatgggttg acaaattcag gaggaccagt ttgactgcct 180

ccactacttt gaggatcaga aggattatattt ggcattccga ttgaacgagat gcttctctgg 240  
 gaatgagctg cactatgggtc taacttaaag gtgctgctgc tccagaaatc ttctgatcca 300  
 tccaccttag tcaactgtttg accttgagtc cttagtcctt tagatgcttc atccattgaa 360  
 ataatccctg gagttttttt 380

<210> 543  
 <211> 490  
 <212> DNA  
 <213> Glycine max

<400> 543

tgccccgtgc tggttctcga gtgaggaaac ttgacttaga gcgtccalat caactcatgc 60  
 acccgatgcg atatatgggtg agctatggcg gctcctatac tttcctatgc gtatgcttcc 120  
 accagcgaga tcaatcccat cagtggcctt gtttatgaca ttctgatgct tgagtcttct 180  
 accacctttc gtgagctatc cacacgcctt gggagcgcgc agtggggttc ttaataattc 240  
 tcgcgacaat gggaccatca atgacaccgg ccggcaaact cgattgcctg cctgttagaa 300  
 tcgtacacct ttgatgtgca ctggtacgga taaacaggga tgccttattt agtatataaa 360  
 atatataaac gcgcataaaa acactcttgg ttgctggaga aatagcttgc ctcttagaga 420  
 gtgccaatca tctaggacat tgagctcagg ccccttgctt gtcttccttc gggccggctg 480  
 aatagactac 490

<210> 544  
 <211> 551  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 544

tcttctcaac aggatcatat aacctgtaac caaattcatt ctcatcataa ccaatgaaga 60  
 tacattgcct tgactttgca tccaacttgg atctctcatc ctttggaaac tgcataaaag 120  
 ccttgccagcc gaaaactctt aagtgggtcat acttcacatt cttgcccac cagattttgt 180  
 tcggcgccctc actattcaaa gcaataacag gactaagatt gataacatgc accgccgtgt 240  
 atagtgcctt accccagaag tgcttgggta actttgcttc agagagcata catctcactc 300  
 tctcaattaa tgtcttattc atctctccg ccaaaccatt tagttgagga gttttctcat 360

gagcaatgtc atgcttcttg cagtagacat caaatggtec ctaatactca ccgccattgt 420  
 caatacgaat gcgnttcagc ttcttgcttg attgcctctt aactaagaca tgaaactcct 480  
 tgaacttctt aagaacttgg tcatttgtct ttttaagcata taccocaaagt ttcttggaat 540  
 agtcatcaat g 551

<210> 545  
 <211> 487  
 <212> DNA  
 <213> Glycine max

<400> 545

tctaagggtg aacaacaatt gcatagaaac agtcatgaag atgagttcat ctaattttca 60  
 ctgcgttggt tggaagaca caaataagaa gaagggagga tcatcaacaa tcaatctcaa 120  
 tgttacaact caaagaactc aaaataagtt cgatgaggag ctttaagaaag caaggagcta 180  
 tgaaattaag tgcttcaagt gtttgggaaa aagtcacata gtttctcaat gttcaactaa 240  
 aaagactatg ttacttaagg aggatagaga aataattagt gaatcttctt caaaatcttt 300  
 cccatctagc gatgaagaag agcatcaaga ggaaagaaag ttagaacgag atttggtcac 360  
 gattagaagg atgttgggta gccaaagcagt tgaattggat gatagtcaaa gagaaaagat 420  
 ttttcatgag aggtgcctta tccaaaggaa gttatgctct ttgatcattg atggtgggag 480  
 tttcact 487

<210> 546  
 <211> 381  
 <212> DNA  
 <213> Glycine max

<400> 546

ctggtgagca ggtcactcat aatgtgaaca ttctgttga cttttaaag gagaactaca 60  
 aatggttctt ccttgaccag taacccccaa tccaaggtag atgaattgag tttaattact 120  
 atccactttc agtataatta ttatcttaca ctctccattt atactgttaa tcaatcagaa 180  
 atcatatatg aaaacaactt ttaagtaatt ttatataaaa gttaacaaac ttattatatg 240  
 taccatacat aaactgctta ctcataaatt actattttta ttaagaaatg ttttagcttt 300  
 gttaattata tataagttct gtgtattttt gccaacatta tcttgctata ctagtagaat 360

gtttaatatg ttaaccaa t

381

<210> 547  
<211> 363  
<212> DNA  
<213> Glycine max

<400> 547

gacacgggct tcttctcctt ttgctagttg tgggttaaaa agacaattgt gcaaaatccc 60  
ccaaaattta acaaaacaat cctcctcaat gtccacatct ggaagttgaa aaaagagttt 120  
caaattaatg ttacaaatct tccataacta atgagggaca caaagtgagt aaaggttgaa 180  
agaaatataa ttctagtcca agatgtatta attatcatgt atgtacccta gctttcttcg 240  
ggcagtaagt gataaatacc gcaaggtaaa ttgtctcaat caccaccacg aatgcattga 300  
tggtgataaa aagcgtttct ccggtcttca cataggcata aaagatccaa agcattgcac 360  
tga 363

<210> 548  
<211> 621  
<212> DNA  
<213> Glycine max

<400> 548

tgtatgaggg gaaaaagtat taaacgttac atatagatac ccattctcca tcttttaagc 60  
gctcaagagc ttcaatcatg tgctcttgat aaattccacc acctcttgta ataggtatgc 120  
atttccctgt gcaagttacc attttagaaa caacagtact ctgtaaaaac aactagaaaa 180  
gcttttcagc atattttgat gcatatatta ataaacttca acccaatcat atgaaataga 240  
cagcagtaaa gcatcacagt aagtattaac cttccgattc aaacattggt agcctagtga 300  
agtgaatgg gtttaattca atgctactga actatagaca aagacaacac acaaaaggac 360  
ttcatccaaa tcaccacaat gtaatacatt cattgaagaa aggccttgat agttgataaa 420  
cagatttggt atattcaatg acatttttgc caattctggg tttctttttt ctttttttga 480  
ttcagaatta aattttggga gtcgaaagga tactaaagtg ctttagctgc aaatttcctt 540  
ttcaacaact tttaagcaac agatctgttg tgttaaagta ttgtcccaag atgaaaagaa 600  
acaagattga ggatctatgt c 621

<210> 549  
 <211> 627  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 549

caattttttt gtgtgtgata gcaaataattt ttttttagtta gataccttat gtttgaattt 60  
 gataatttac gagtttgata tatatagata tttattataa atattaaatt ttcaatatta 120  
 ttaattaatc aaaaattatt ttaaaacaat gttaacaaga tattataaaa gttaataaat 180  
 ttatcttggtg taaaaattta taaatagatg gccttgtaaa aaattaaaac aaacatttta 240  
 caattagtgc atatgatgtt tattcataat attttgttta attgaaaatt atatttttaa 300  
 tatatcatat taataaaata aatgtatatt agtaataata aaaaaattat tatttaaata 360  
 tgttatttaa atttaaaaat ttacttacia ttaaatacct tactatttta aatagttttt 420  
 attaagtca ataacaaaaa attcaatgta aaattatttt atataaaatt tatgtaaaat 480  
 acattgataa tgtaaaatta ttttatattg ttatcataat cttattaatt ttctcaataa 540  
 caactttaaa aatcatattc aagttgatgt tcaacangtt aacatgacaa tgtaatttat 600  
 ttttatattt acaatgcata ataatta 627

<210> 550  
 <211> 627  
 <212> DNA  
 <213> Glycine max

<400> 550

tctatagaag gttcgtccct aattttctcta caattgcac acccttcaat gagctagtga 60  
 agaagaacgt ggcatttacc tggggtgaaa aacaagagca agccttttct ttgctcaaag 120  
 aaaagcttac taaggcacct gttctagctc ttcttaactt ttctaaaact tttgagctag 180  
 aatgtgatgc ctctggagtg ggagttggag ctgtattggt accaggtggg caccctattg 240  
 cttatttttag tgaaaaactt tatagtacca cctcaacta cccacctat gataaagagc 300  
 tttatgcctt aataagagcc ctccaaactt gggaacatta ccttgtttcc aaggaatttg 360  
 tcatttatag tgatcatcaa tcaactaagt acattagagg gcaaagcaag ttaacaaga 420

gacatgcaaa atgggtagag tacctagagc aatttccata tgttatcaaa tacaaaaagg 480  
gaacaacaaa tgtggtagtt gatgccctct ctaggagaca cgcattgttt tgctccctag 540  
gagcccaaat tttaggattt gataatatta gggacttgta tgctttaaat gaacatttct 600  
cttccattta cgagagtgtt gggaaaaa 627

<210> 551  
<211> 427  
<212> DNA  
<213> Glycine max

<400> 551

tcagttttca attacgagcg tctcgatata ttacgggact caatcatata tccgaattga 60  
aagtttttgt cattcgactt ttcatagagc ttctgttttc aatttcgagc gtcacgatat 120  
attaaagggc tcaatcgac attcgagtta aaagttattg tcgtttgatt tttctcagag 180  
cttccgtttt caattaccag cgtctcgata tctacgaga cacaatcgaa catccggctt 240  
aaaagctatt gtcgtttgaa ttggctcaga gcttccgtgt tcaattacca tcgtctcgat 300  
ttattaccgt actcaatcgg acatccgaat tgtgagttat tgctactaga cttttcatag 360  
aaatttcgtt ttcaatttcg agcgaataga tatattagag ggctcgatcg gacatgcgac 420  
ttaaagg 427

<210> 552  
<211> 488  
<212> DNA  
<213> Glycine max

<400> 552

agcttgccaa cccatggaag ctccataat ctccacact ttttggggtg ggccattctt 60  
ggatggcctt gattttctca aggtccactt ggacccatt tctaccaact acaaacccta 120  
agaaaactat attatctaca caaaaagtac acttctctat atttgcatag aggggtgttt 180  
tcctaaggac tgaaagaact tgctgagat gtcctaagtg atcatctagg ctctactgt 240  
aactaaaa atcatcaaaa taaacaacta caaatctacc tatgaaatcc cttaagacat 300  
gatgcataag cctcataaag gtgcttggtg cattagttag cccaaaaggc atcactagcc 360  
attcatacaa accaaacttg gtcttgaaag cggttttcca ctcatcacc tttttcatcc 420

tgatttggtg ataaccactt ttaagatcaa tttttgaaaa gatattggca ccatgcaact 480  
catcaagc 488

<210> 553  
<211> 498  
<212> DNA  
<213> Glycine max

<400> 553

cgtgcattca atatcctgat gagggtgttc catatgttct caagactgga ctaatacatt 60  
tgctgccccaa gtttcatggt cttgcaggtg aagatcctca taagcatctt aaggagtccc 120  
atattgtttg ttcaccatg aagccccctg atgtccagga agatcatatc tttctaaagg 180  
cttttctca ttctctggag ggagtggcaa aagattggct ttactacctt gctcccaagt 240  
ccattttcag ctgggatgac ctttaagaggg tgttcttggg gaaattcttc cctgcatcca 300  
ggaccattgc catcagaaaa gacatttcag gcattaggca acttagtgga gaaagcctgt 360  
ataagtactg ggaaagattc aagaaattat gtgcaagctg ttctcaccac cagatttctg 420  
agcaactcct ttttcaatat ttctatgagg gacttatcac ctggagagga gtattattga 480  
tgctgccagt ggtggagc 498

<210> 554  
<211> 486  
<212> DNA  
<213> Glycine max

<400> 554

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taattaaaca caagtagagt ggttcaaaat ttttaagtaa attattttat tattttgaac 120  
ataatttttt taataggttt acacttataa tataaaatca cttatacttt gatgtaggaa 180  
agaagcttga caaacaaagc taattgaagc aagcaagaaa taaaataaat tattgaaaaa 240  
atcaattgtg caaaagacat ttgaaatggg agcatctttt aatattttat attagttttc 300  
ttacaagtta tataaaataa ctcatttttt attttgtgat tatttttata tgatatatga 360  
aaggttgggtg aaatttataa agacattatg cattatatta tattatttaa tttgtttttt 420  
actatataaa ttttaataga aaaaagattt aatatctggg gaatgacaaa aaaattaagg 480

taaaga

<210> 555  
 <211> 305  
 <212> DNA  
 <213> Glycine max

<400> 555

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 tcagaacttc attggaagag gtgaggttgg gatggtttac tagggcattc tacctgatgg 120  
 ctcaatgggtt gcaatgaaac ggcttgaata atcaaattct caaagagatg ctgtgttcta 180  
 aagcgaggag gacattgtta agcaccttga agcaccgtaa tctggtgcca ttaaaaggaa 240  
 gttgcaccat tggaagaacc aatttgggaa attatatatt gtgatggttt ttaaagatat 300  
 ttaac 305

<210> 556  
 <211> 366  
 <212> DNA  
 <213> Glycine max

<400> 556

tttgagaaat tcaaattggtc ataacttttc acaaggatgt ttgattatag cgcacgcgat 60  
 atagagacgc tcgaaaatga acaacggaag ctctcgagaa attcaaatgg tcataacttt 120  
 tcacactgac gtacgattca tgcttataat atatggatat gctcagaaat aaacatcgga 180  
 agctctcgag atattcaaat ggtcataact ttccacatgg atgttcgatt cgtgtgcata 240  
 atatgtcaag aggctcaaaa ttgaacaacg gaaggctcttg agaaattcaa atgttcataa 300  
 cttttcacac gaatgtccga atcatgctta taatatatcg atacgctcga aattaaacaa 360  
 cggaac 366

<210> 557  
 <211> 438  
 <212> DNA  
 <213> Glycine max

<400> 557

agcttgaatc ggacatctgt gtgaaaagtt atgtccattt gaatttttca agagcttcca 60



ttttttaaatt tcgagcctct caacatatta tgcgcccga tgggacatcc gtgtgaaaag 120  
 tcatgatcat ttgaatttct cgagagtttc cgatgtttta tttcgagcgt attgatatat 180  
 tataaccctg aatcggacct cagtgtgaca agttatgacc atttgaattt gacgagagct 240  
 tccgttggtc aatttcgaat atcactatat gtgatgcgcc taaattggac atccggggga 300  
 aaagctatga ccatttgaat ttctcaagag ctcccggtgc tcaatattga gcgtctcgat 360  
 acgtgatttg cctgaatcgg ccacccgtgt gaaaaagtat aaccatttga atttctcaag 420  
 agcttccggt gttcaatt 438

<210> 558  
 <211> 456  
 <212> DNA  
 <213> Glycine max

<400> 558

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 aatttgatat tctgaaggcc aaaaataccg agatatattt aaaaaattat taatctatcc 120  
 taataaatac ttattcatat tctcaaactc tgtatcatat ccttccattc attatatttt 180  
 ttaaaaaata aattatctgt caacaatgtc ataccataat gggtatctaa tctaaactat 240  
 ttaacctggc aaaacgataa tttttgttat tatgatgaac aagaattata aattataaaa 300  
 tcttagtcat ataataaaaa ttaaaaaaat acatataatt ttgtaagtga ttattcaacc 360  
 agtaataaaa attttagggt aattatttat ataaaattaa attagtcatt tttattctta 420  
 tataagatga tgatttacat taagatggag tcaatg 456

<210> 559  
 <211> 473  
 <212> DNA  
 <213> Glycine max

<400> 559

tgcttgggat tgatcctcca aagggtgttt tttgttatgg cccccagga actgggaaaa 60  
 cacttttagc cagggtctgt gctaatagga ctgatgcttg ttttataaag gttattggaa 120  
 gtgagctact tcagaaatat gttggtgagg gggctatgat gggctcgtgaa ctattttagg 180  
 taaaatgcac aagactccgt cctctagctt tttttatca ttgtttcgat gaaaataaat 240

cattcgacta aaatctctg attcttagat ggtcgggtca aagaaggcat gcattgtgtt 300  
 ttttgatgaa attgatgcaa ttggaggagc tcgatttgat gatggttggt gaggtgacaa 360  
 tgaggttcac cgcaccatgc ttgaaattga gaatcacctt gatgggtttg atgctagggg 420  
 aaacaataaa tttttgatgg caactaacag ggtggttgaa tttattgtga gag 473

<210> 560  
 <211> 533  
 <212> DNA  
 <213> Glycine max

<400> 560

tgtttctaca ataagggtgat gtccttcgga ctcaagaaca ccggggcaac ctatcagcaa 60  
 gcgatggttag ctttgttcca cgatatgatg caccaagaaa tcgaagtgtg tgtggacgat 120  
 atgatttcta agtccaaaac caaagaagag catctaata acttacggaa gttgttcgag 180  
 aggttgcgaa agtaccagct aagggtgaac ccagccaagt gcactttcga ggtcaaatcg 240  
 ggaaaactgt tgggtttcat cgtaagccaa aaagggatag aggttgaccc cgaaaaagtt 300  
 aaagccatcc tcgaaatgcc gaagccatgc actaaaaaga aagtctgggg tttcttgggg 360  
 cgcttgaact acatcaccag gttcatatca cagctcacgg ctacctgcaa gccgttatcc 420  
 aagcttttgc gcaaggatca gtccgttcgt tggaatggtg attgtcaaga ggtgtttgga 480  
 aagatcaaac aatgtctcat gaacccctg gtactaatgc caccgggtggg tgg 533

<210> 561  
 <211> 473  
 <212> DNA  
 <213> Glycine max

<400> 561

agcttgtcag tttattccca aaaacctgcc tagtccaaga atatggcttt caattgaatg 60  
 acaatagtct ctaaataaat tcattggcgt atcacttcac tcacttgaat tacaacatga 120  
 tagatactta actgataaat catatatatg tgatatgagt aattaattaa aactatatat 180  
 atataggaca aagatatatt attgattaaa tttttaaaaa acaaaatatt gttagtgatt 240  
 atttttttaa atgaatatat gtaacataat tagaattgac agtaaaactgt atggtaaaaa 300  
 acacagttat aatattaaga aaaaaattta atcaaattct ctatttttaa tataactatg 360

cttattataa taaaacatta aaataccata attggatttg gatgtcctaa aacaactggc 420  
 actaatcctt tttaaaaaaa acttataact caaattgata aaagcttatac aat 473

<210> 562  
 <211> 568  
 <212> DNA  
 <213> Glycine max

<400> 562

tatgaaaata agagaaagaa actttcaaaa taaatttgta tattaaacaa attatttttg 60  
 gtcaccttgt taaataaata tttatttttag tcaaattaat ttataagtta gtcgaataaa 120  
 cttttataat ctaattaact attagagcaa tttggcaatc ataccatgg ttaaagaagc 180  
 tatttaacca gtataaaaaa cttttaggaa tttaatttac ttaaaatatt tataaaacat 240  
 atatactttt ttagggtaaa cgtatgtact taaaatatat cttttattca attttgtag 300  
 acatttttagt aattttattg tttcatttta attgtgattt tataatattg atgatgtatt 360  
 aaatattttt ttcttaatat atccattatc ggtcatcatt aagtgagaaa acaaaaaaaa 420  
 gtataaataa aagatagtcc aattaatata aaagaaaaaa atattataaa aattgcataa 480  
 taattttaat aaaatctata atataattac atatctaaat ttctgtacca aaatttgacc 540  
 acaataaaaa tggagggatt ttatatta 568

<210> 563  
 <211> 497  
 <212> DNA  
 <213> Glycine max

<400> 563

atttacattt tcaaagatta catattgggg aatctaacat aacagacaat cgattgtaca 60  
 aaacaatgat aggagtaaaa tctagtaaca tcataattta aactcactgc gacggataaa 120  
 tgacaatcac cataactcaag agcctcatgg ataattgataa gatctttcct accctaattc 180  
 aaaaaaatta gacgattaaa caatttatgt ttggtgacta catagtggca ctaatatgta 240  
 aatgcaaaaa tgctgacctg gccatgttca ttgaaagtat cgagtccaac aattccaagg 300  
 tccagatctc cagataacaa ttttcttggt atgtatttgg gcctctaaaa ccaaactatg 360  
 agtttggatt gctgcagtaa tgcaagagaa ttggtttatg gtcattgtaga gatatagtac 420

attgatggaa gccaaaggaa aaaatagaac gcacatgagg aagcaactca cttaacttat 480  
 ttctgctttt tggatca 497

<210> 564  
 <211> 342  
 <212> DNA  
 <213> Glycine max

<400> 564

agctttgtat ggtagaaggt gtaggacacc tctatgttgg ctaaagccct gagaagacct 60  
 caccttagga cttgaagtgg tacaacaaac caccgagaaa gtcaagttga tccaagaaag 120  
 gatgaggact gctcagagta ggtagaaaag ttatcaggat aagaggagga aagacttgga 180  
 attcgaggtt ggtgatcatg tattcttgag agtcactctg tggactgggg ttggtcgagc 240  
 attgaaatcc caaaaactaa cacctcgccct catcggtcct ttccaaattc ttaaaagagt 300  
 cggtcctgtg gcataccaaa atgcattatc cccatcacat tc 342

<210> 565  
 <211> 582  
 <212> DNA  
 <213> Glycine max

<400> 565

ttgttgacaa cactgtggct gcagcattca atgctgacct tgtccaacct ccatcaccct 60  
 tgctgccccaa attactttga tctctaagta catcatgatg taagctccat tggagcttgt 120  
 aggccatagga tcttcttcat caatggattc ctttgcctct tggaagatga atggcagtg 180  
 aacggataaa ggaagagaga gaggagacgc cacttcaaag agaagatgag tttagaaaaa 240  
 gccaccacc ataggaggcc atggataaga gctttgagga agaaggagat gaatgaagg 300  
 agagggagag aagagcacga aattttgtgc tctaaatgag ctctgaaatc tgaagttaa 360  
 tattcaaatg atcaaagttg aaaaaaatgc acacacatga cctctattta tagcctaagt 420  
 gtcacaaaat tggagggaaa ttcaaatttc acttgaattt gaaattgaat ttgtggagcc 480  
 aaaaattcac ttaatatgat tagtgaaatt taattatgtt tcaacccac taatccaaga 540  
 tcaattccaa gattctccac taagtgtgct taagtggcat ga 582

<210> 566

<211> 539  
 <212> DNA  
 <213> Glycine max

<400> 566

tgctatgtac cctacgcca aactagtatc atagaagaaa tatgatatgg gagaagagcg 60  
 gcgtaaaacc ggtaaaaaat aagtcaacaa ggtattgcat gcgaacttta tcatagaggt 120  
 ccgattctct acttggettg ccaacatcat cataatcaaa aaggccaacg cctaattggca 180  
 aatattcadc gactacactg atttgaatag ggcattgcct aaagacgcat accctttgcc 240  
 caacattcat agactagtgc atgggacatc cgagttccag gagcttagct tcctagatgc 300  
 ttactatgga tacaaccaat tcaaaatgca tgcctctaac aaggagaaaa tgacattcat 360  
 cactaaagat gccaaacttta actgccagga caagccaact ttagtggagt tgggtatggt 420  
 aaagtaagtt aatgacaaaa aactccctta ctgagcatca tcccatgagg gaacatgttt 480  
 cctcaccaac ccaatgagtg gtgctacaag tatatacaaa tatgggacaa aacttttgt 539

<210> 567  
 <211> 314  
 <212> DNA  
 <213> Glycine max

<400> 567

gcatgcaagc ttgtaatcga ttacacaaat cttgtactct attaccagag gagaatttca 60  
 gaaaataatt tccaagagtc acatctgttg ccatcaaagg tctatttata tgtgacatag 120  
 aacacgaatt tgcgaagagt ttttgagaac acaaaggtct taccctctcc aaaaaagaaa 180  
 aattatctta tctctttaa aattccttgg ccaataccct tgcaattcaa taaggaatta 240  
 ttttgagtgc tccattgttc aatctatctc tttcaagaga gaattcctct tctcttcac 300  
 ctatttcctaa aaag 314

<210> 568  
 <211> 446  
 <212> DNA  
 <213> Glycine max

<400> 568

agctgtgaga caactcaact ttcataactt tggactcaaa tgtctgatta cggaccataa 60

tatatcaaga cgctaaaaat tgaacacgga agctcggggc caattcaaac tgccataact 120  
 tttgacttag atgtctgatt gtggaccata ttcgaactgc catgattggt gattctgatg 180  
 tttgactacc gcccataata tatcaagact cttgaaattg attacaaaag ctcttcacaa 240  
 attaaactac cataactttt gattggatgt ctgattgtgg ccgataatat atcaagatgc 300  
 taagaattga acacggaagc tcctagaaaa ttcaaactac cataactttt gacttgaata 360  
 tctgattgcg gaccataata tatcaagact cttgaaattg atttcgaaag ctatgagcat 420  
 attcaaaact ttcataactt ctgact 446

<210> 569  
 <211> 437  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 569

agctntcctt cattctcttt caagttaaca ttttgaataa tttttatcat ttacaaatta 60  
 tttattttga agtaataatt tttgtggtta gaatgaaatt tgaacctgaa gttaaagtgt 120  
 agtaattttt ggaattagat tttttatttt gaaattatta ctaataatta tttataagcc 180  
 tctttgttca tgggtttttct gccttagaaa tttttacatg tgaccttcc tgtttttgga 240  
 gttaaagaat tattcgtaaa ttatttaatt ggagtaataa tttttttgtt agaatgaagt 300  
 ttgaatgtgt agtttaagtt taatagagca agacaataga ttnttttatt tttatcattc 360  
 acaaattatt tattttaagt aataatattt tttgttacia taaaattgta agctgaagtt 420  
 taagtgtatt atatttt 437

<210> 570  
 <211> 383  
 <212> DNA  
 <213> Glycine max

<400> 570

tatatggcct aggatgtggg tttgtgacta aattcaattt aaacacaagt cttgcacttg 60  
 ccacattggt acaactccct ccataatga tcaccatgca aactttgcca ttgatcaaac 120  
 atctaagtgt gaaaaagttt tgtctttaac tttctccat agacttcaat taatgggcaa 180  
 gtaaccgtct aatcatcaac aaatctccct ccggtgggtt ctacacttcc tctcatcat 240

cctcactctc tttttccttt tcaacttccg actcactaat gtactctcca tctctaagaa 300  
 tcatggcttt cttgttaggg cactcatgtg cataatgtcc caagccttgg caccgaaagc 360  
 acttcacata ccaacttttt ttt 383

<210> 571  
 <211> 444  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 571

gcttgcttct atagtacata cacaatatac atcatcacia tgacattntt aacatcaaca 60  
 aaatgtcatc tccaggatcat tgtcaacatc aacatcatct catctcaatg tcattctcaa 120  
 catcaacatt atctcatctc aatgtcattc caacatcaac atcattttat ctcaatgtca 180  
 ttctcaacat caacatcatc tcattctaat gacattatca acaacaacaa catcatctat 240  
 atcaacataa tcattaataa caacatgatc tcgtatcaat attatcataa acaccaacat 300  
 cgtttgtatc aattattatt aatatcatct tcaatatcaa catcattctc tatcaacatt 360  
 atcataaaca tcaacgtcac ctcatatcaa ttaatgtcat tgcataccc taatttcgtc 420  
 cggcgacctt tgcttgatga catg 444

<210> 572  
 <211> 438  
 <212> DNA  
 <213> Glycine max  
 <400> 572

tagacaatta catatctctc ttctttgata cagataattc aaaatacttt gtttcatggc 60  
 ctgccaatg aagaccctta tgcactta gctacctata tagagatatg caatactatt 120  
 aagttggcgg gtgtgcctac tgatgcaatc cagttgagtc tgttctcatt ttctttatat 180  
 ggagaagcta agagatggct tgattctttt aaaggaaaca gtctgaagtc atgggatgaa 240  
 gtggtagaaa agttcttaaa gaagtacttc cctgaattga agactgcaga aggcaaagtt 300  
 gccatctctt ccttccacca gtttctagat gaatcgttga gtgaggcact catgggtttt 360  
 cagaaccaat acagctcaac atattcatag atgggttgag accacaatct aagcagctct 420

tg gatgcttc agctgggg

<210> 573  
 <211> 326  
 <212> DNA  
 <213> Glycine max

<400> 573

tttagccaat tcagacaaca ataacttttt actcggatgt cttattgagt cccggaatat 60  
 atcgagacgc tcgaaattga atgttgaacc tctgagctaa ctcaaacgac aataactttt 120  
 tactcggatg tctgaatgag tcccgtgata tatcgagacg ctcgaaattg aatgttgaaa 180  
 ctctgagcca attcaaacga caataaattt ttaatcggat gtgtgattga gtcccggaa 240  
 atatagagac gcctcgaaat gaatgtggaa cctctgagcc cattcaaccg ccattacctt 300  
 ttactttgaa gggttgatgg ggcccc 326

<210> 574  
 <211> 430  
 <212> DNA  
 <213> Glycine max

<400> 574

agctttagg gttaaagtct cacaattggt acgtgctcat gcaaaaattg tcagtcgcgg 60  
 ctatacgaga catcttgcca aacatcgtca ggtagccat aactcgactg tgctttttct 120  
 tccatgctat atgaagcaaa gtcattgac cgtcaagat tgatgagctg gaaaatgagg 180  
 ccgtaattat actatgccag ttggagatgt attttcccc tgctttcttt gacatcatga 240  
 ttctcttgat tgtgcatctg gtcataga aa tcaaagtgtg tggctcctgtt tatctaccgt 300  
 ggatgtaccc agttgagcga ttcattgaaga tcttaaaagg atatacaaag aatctatatc 360  
 atccataacc atctattggt gagagggaca ttgcagaaca agccattgaa ttttggtcac 420  
 aacacattca 430

<210> 575  
 <211> 419  
 <212> DNA  
 <213> Glycine max

<400> 575



tagcttatcc agaagcactt ttagaaatag aaatttagac aaaaaaaagt ttctccataa 60  
 gttagaaatg atcttataga gaagttatat gacagagttc ctataaatga gcttattcat 120  
 aagctaattt tagcttatac agaagcttat ttcattcttt tcttcttata ttttcctctc 180  
 ctctagaag cgcttatggg gaagtttate caaataggcc ctttatattt cattgttctt 240  
 tctcatttcc ctgagtcatt gctgctgaaa gcaactttga catctctccc agcaggaata 300  
 tgcacgacta acctctagac tcaaccccgga tggtaaataa aagcacatct agtcgagaat 360  
 tttacacccc attgtgtaca gtcaccaaaa cttacacctt ttagtgttgt aatttatga 419

<210> 576  
 <211> 408  
 <212> DNA  
 <213> Glycine max

<400> 576  
 ttggagtttc caagtgccaa atcgtcttct tcttttgtcc agtcttcttc tggcttcaat 60  
 tcattagtgg gctttccttc tgtgtccagc atcttgggat gttcccagcc tttgatgaca 120  
 gctttccagg ttctgctatc cagtgatttg aggaaggcca ccatccttgc tttccagtat 180  
 tcatagctgg ttccatccac aatgggtggg ctgttcaact gtccttcttc tttctccatg 240  
 ttcatcaciaa tttatctccc tagatctcac tcagtgaatt agagtgcccg ctctgatacc 300  
 aattgaaatt ctgatactga ggccagatgt cgtaccggat gtcacgacat caagcttcag 360  
 aacatgcaga ttatatattga ctgtctgaca gattaacaa gttaataa 408

<210> 577  
 <211> 430  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 577

agcttgaacc ttacagaccc tattctagtg atcttacaag acttggttgt tccaagtagg 60  
 aatgaaccac caacttggtc atcaagctcc tcaaaccaag acttggttgg ggtcatatag 120  
 aatgaacacc cagagtccaa gatccattct gtctcagagt tttcatgaga caccattaaa 180  
 gctcagctg actcataacc atcttcaact agagcagcat ttctaggctc tttagattga 240  
 tcttacttgc ttcctttcta tctatcagga caaatctcc tagtatgacc ttctcttttg 300

cagtggtaac atctaattgtt tgggtacatta gatccagatc gagtttgtga cttggatctt 360  
 tttccttctg tcttatcatc cttcgtatac tatcttacac gaactgagag ttcctacnca 420  
 tgtacataag 430

<210> 578  
 <211> 573  
 <212> DNA  
 <213> Glycine max

<400> 578

tctttgagaa aacttccttg agaagctaga gcttagctac acacaccct ctcataacta 60  
 agctcacctc cttgagaagc ttccttaaga agattcctta agaagctaga gcttaactac 120  
 acatacctct ataatagcta agctcacctc cttgagatga gaagctagag cttagctaca 180  
 cacccttat aatagctaag ctcaccccca tgacaaaaa catgaaaata acaaaaaaaaa 240  
 gtccttatta caaagacaac tcaaaatgcc ccgaaataca aggctaaaac cctatactac 300  
 tagaatggcc aaaatacaag gcctagacga aggaataacc tattctaata ttacaaaaga 360  
 taagcgggct catacttagc ccatgggctc gaaatctacc ctaagggtca tgagaaccct 420  
 agggcctctt cttggatctc tagcccaatc tacttggagt cttttagcca atgcccttgc 480  
 ggggtaggat tgcgtcaacc ctcacgactt tatctgcgta gggacattgt gtatcatgcc 540  
 gccaacatga tacaccttta ctaaggccac caa 573

<210> 579  
 <211> 412  
 <212> DNA  
 <213> Glycine max

<400> 579

ttcttttga tttgattgga atttctgact tgaaagaatt cttggttgc tttgacacac 60  
 aacactcaac acacaattgt tttggtatct caatttgggg aagaccatga gccattttct 120  
 tacttttcaa attacttaaa ctctgaaat ttaaatgacc aaacctgtga tgctacatcc 180  
 agctttcatc acttatagaa gcagccaagc attgaaatc tgcagtctga attccaatct 240  
 tgaatgctct atttcttgac aaaggggcct ctataatcaa cctcctattt ctatcaaata 300  
 tctttatttg attggcctcc atctgcattg agtagccctt ttctagcaac tgtctcaaac 360

tcagcaaatt attcttcata ttgggaacat atagcacatc attgataaat ga

412

<210> 580  
<211> 462  
<212> DNA  
<213> Glycine max

<400> 580

tggacttcct gtgttttggg aacctctcct tcctcaagtg tacccaaacc tcatcacctg 60  
gttcaagcat gactttcttt ctgcttttgt tggcttgctt tgcataagctc gcatttttct 120  
tttcaatttg ggccttcact tgcctcatgca acttcttcac atactcagct ttagcctgtg 180  
catccttatg cttaaacata gcaatgttag gcataggcaa ccaatcaaga ggagtcaaag 240  
gattaaatcc atacactatc tcaaattggtg aacaattagt tgtgctatgg acagcccgat 300  
tataagcaaa ctcaacatga ggcaaacagg ctcccaaga tttaagattt ttcttttaaaa 360  
cagtcctaag cagcgtgcct aaagtcctat tgactacctc agcttgacca tcaccttggtg 420  
ggtgacaagt agtagaaaac aacaatttag tactaatctt ac 462

<210> 581  
<211> 425  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 581

tagagtcacc tgaagctgca gcttcctggc ctttaggtaa aaagactcgt gatcgctatg 60  
gatgacaaac tctntgggta ataggtcatg ctgccagagt thtagagccc taaccaaagc 120  
atgcaactcc ttaaataaga gaagaggaaa ggcagaggct cctaactttt gactaaaata 180  
agctatcgga tgtgctgtt gggataaaac agccccaatg cccatatttg acgcatcaca 240  
ctcaatttga aatgatgttg cgagattaag cataacaaga atgggtgcat tatttaacct 300  
atgggttgagg gcagcagagg cctcttatta gttgttacct cattcgaaac ccacattctt 360  
cttaacaact tcacgtagag gagcagccaa tgtactaaca tccttatcca atctgctata 420  
gaaac 425

<210> 582

<211> 217  
 <212> DNA  
 <213> Glycine max

<400> 582

tataactgcaa acatctacaa taaaccttct caacctcagc agcttaatca accactacag 60  
 aacaaatatg accttttcag caacaagtac aattctaggt ggaggaatca ttcaaacctt 120  
 atatgggtcga atcccttcca acaacgacaa caacaacaac caccttattt ttataaagtt 180  
 gctggcccaa gcaaaacata ttttcctcca ccaatcc 217

<210> 583  
 <211> 438  
 <212> DNA  
 <213> Glycine max

<400> 583

agcttgaatc ggacatctgt gtgaatagtt atgaccattt gaatttatca agagcttccg 60  
 ttgttctatt tcgagcgtct ctatatgtga tgcgccataa tttaacatcc gtgtgaaaag 120  
 ttgtgaccat ttgaatttct caagagcttc cggtgttcaa tttegagcct ctcgacatct 180  
 tatgcgcccc aatcgaacat ccgtgtgaaa agttatgacc atttgaattt ctcgagagct 240  
 tccgatgttt aatttcgagc gtatcgatat attatatgcc ttaatcggac ctcaatgtga 300  
 aaagttatga ccattttaat tgcccagagag ctcccggtgt tcattttcga gcgtctctat 360  
 atgtgatgtg ccttaatcta acatccgtgt gaagagttat gaccatttga atttctcaag 420  
 agctttcctt gtttagtt 438

<210> 584  
 <211> 540  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 584

acctttccaa catttgggtcc atgaatggca gatgaaaatg acatcattca acttgcggtg 60  
 gtcaataaaa attcgccacc cagtgattgt ccgtgtagga ataagatcat tcttatcatt 120  
 acagatcatc ttcatatcgc ctttcttttg caccacctgg accaaactca cccaagtgtc 180  
 atcagagttg gataaattag tcttgcttca agcaacttga ggactttttt gcacacctcc 240

tccttcataag atggntgagt ctctctatg gatgtctatc cagtctgaat tcaccttcca 300  
 tcattatgct atgcatgaaa taggatggac taatccccctt aagatcaaatt atgtgtcatc 360  
 ctattgttgt cttgtgcttc ttaagaacct ccaccaatag tgcttctca attgaagaca 420  
 acgtattatt gataaccact agtttaacat catctgcttc ctgggagaca tacttaaggt 480  
 gaggaggtag aacccttaac tcaaccttaa gtttttctgt aagagtgcct ttttttagct 540

<210> 585  
 <211> 437  
 <212> DNA  
 <213> Glycine max

<400> 585

agcttcggct ttgtcctcaa tgcttcatgt agacttggcc aaaatcgcca agtgaacctc 60  
 ggatccctgt cagatacaat actggaagga attccatgca accttactac ttctttgata 120  
 tacaacatcc actagcttct ccattctata cttcatattc actagaataa aatgagcaga 180  
 tttggtaagt cgatctacta tgaccatac agcatcatgt cctcgactag acttaggtaa 240  
 actagataca aaatccatgg atatgctctc ccatttccat tccggaattg ccaagggctt 300  
 caattctcct tatggtegat gatgctccgc cttagccttt tgacatgtca aacaccttgc 360  
 tacatattca gctacatctt tcttcatgcc atgccaccat aaacttctct tcaaattctg 420  
 gtacatctta gtcattc 437

<210> 586  
 <211> 478  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 586

cccttcatga tgaatcaaga ttgattcaaa gatgttttga tgataacaaa ggggatgaaa 60  
 aaaagctcaa aggtcaattc atgataatca aagaatgagt tcaagatggt caaagatggt 120  
 taagatgatc aagatgatca agattgaata aaaaacactt caagaatcaa gaatcaagat 180  
 tcaaggttca agcttccaag aatcaatata aagattcaag actcaatatt caagaatcaa 240  
 gagaagactt aaatgagata agtatgaaaa gggttttttca aaaacttagt agcacatgga 300

tggttttctca aaaaatgttt accaaagagt ttttactctc tggtaatcga ttactagaat 360  
 attgtaatcg attaccagta gcaaaaaatg attttgaaaa agttttcaca tgaatttaca 420  
 acgttccaat tgatttcaaa aagttgtaat cgattacaat gttntggtaa tggattac 478

<210> 587  
 <211> 334  
 <212> DNA  
 <213> Glycine max

<400> 587  
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 gctatccgtg cccggaggaa gactgtaaca aacacagact tgctttatgc accaaataaa 180  
 gtcattctaag gataccagaa catcactgca actcccaagt atatgggtcta caactgaggt 240  
 attttttcat ctttttccga gaccatagca gctttatctt ttttttcccc tggaaattga 300  
 agggcatgcg attctatcta attaactctc tggt 334

<210> 588  
 <211> 447  
 <212> DNA  
 <213> Glycine max

<400> 588  
 agcttgaagg acatgcacaa agtgtgacta tatgatgtgg ctatggcgtg tagcaagcaa 60  
 atgctcacct ccccttagg ctggaccaa ctttaattgg gttgggcttc tcccaattca 120  
 attaaattta tctcccaaca cacatcaaat agggcactta atgcatgtga aattacaaaa 180  
 ctacccttaa tccagaaact agtctaggtg ccctataata caagagctaa aaaatcctac 240  
 attactaggg taccctccct acactatgga gccctaaata caagtcccaa aaataatgaa 300  
 atcctaattct aatatgtaca aagataagtg gtctcatact tagcccatgg acccaattct 360  
 cttggagtct tctatccaat acccttgagg gatagtgatg tagctccatg tggagcttgt 420  
 agaccttggg tcttcttcat caatgga 447

<210> 589  
 <211> 333  
 <212> DNA

<213> Glycine max

<400> 589

attgcacaac ggaagctctc gagaaattta aatggtcata acttttcaga atggaagtcc 60  
gattcacgcg cataatatat cgagaaactt gaaattgaac aacggaagtt gatgagaaat 120  
tcaaacggtc ataacttata aactaaagg tctattcagg cgcataatat atcgtgacgc 180  
tcgaaattga acattggaag ctctcgacaa atgctaattg tcattacttt tctaattggac 240  
attcgattca tgcgcataat atatcgacac gcttgaaatt gaacaacgga cgcctcttat 300  
aagttcaaat gcgtatagct ttttacaacg aag 333

<210> 590

<211> 447

<212> DNA

<213> Glycine max

<400> 590

agcttgtaat tgaatacctt aatgataacc aactatcctg tttcacagtt cttaaaacat 60  
aaccaagaac aatttaacat attacaacac ctcataatcc attataacat gttatcaaat 120  
acaattttta gcataaaaaa tcaactttgt tcatacaact ataagtacac aaagattaca 180  
aaaatattaa tgttgcttct tattctatta cttttattaa taaaaattaa ttactttaaa 240  
atcatataaa taataagatc taattaattg ataataaat ttttagtcac taataaatgc 300  
atatgaaact cactcttttt cttcttctca aaatcacctg ctaatatata tattttttgg 360  
gtttctattc tacattaaaa catagtaccc tatttatact aatcactgac tattatgctc 420  
atatagtga cccaatttat attaatc 447

<210> 591

<211> 433

<212> DNA

<213> Glycine max

<400> 591

agcttaccac ctttcccatg atgcagtcac cagattgcga acttcccttt aaactcatgt 60  
gtgatgcctc taactatgca cttgggggtg tttgtcaca gagagttaac aaactatccc 120  
atgtcattgc ctatgcttca cgcacttttag atgcaacca agttaactac accaacacta 180

agaaggagct tttatctatt gtttttgctt tagagaaatc cagatcttat tttctttgct 240  
 ctctgtattat tgtctttact gaccatgcag ctttgaggta cttattgaag aagccttatg 300  
 ctaaacctag attgataagg tggatgcttc ttcttcagga gtttgatatt aagattaaag 360  
 acaggagtgg tgcagagaac ttggttggtg atcatttgag ctagattgag gaacttattg 420  
 atttctttcc tat 433

<210> 592  
 <211> 430  
 <212> DNA  
 <213> Glycine max

<400> 592

tgtttaccct atgttgaatt tgcttacaat agagttgttc ataatgccac taattgttct 60  
 ccttttgaag ttgtttatgg ttttaacca ctaactcttc ttgatctttt gcttatgcct 120  
 aatgtttctg tttttaagca taaagaaggc caagcaaagg cggactatgt gaagaagctt 180  
 catgagagag tcaaagatca aattgagagg aaaaataaaa gctatgctaa acaagccaac 240  
 aaagggagaa agaaggttgt cttctaacct ggagattggg tttgggtgca catgagaaaa 300  
 gaaaggtttc caggacaaat aaaatctaag cttcaaccaa ggggagatgg accatttcaa 360  
 gtgcttgaaa gaatcaatga caatgcttac aaagttgagc tgcccgggtga gtataatgtt 420  
 aattccacct 430

<210> 593  
 <211> 422  
 <212> DNA  
 <213> Glycine max

<400> 593

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 atggaattgc ttccattttt ttctgttcaa ttcatctta agacattgtg cgagactaaa 120  
 tttgtctctt ttctgaattg gaatgggtga tgttgagcac ttttccatcc tgaatctctc 180  
 tagtacttta ttgatatatg atttctgaga caaccctaac aatccttggtg atctatttct 240  
 gaatattttt atccctatca cataacttgc ctcaccata tcttgcatct taaagatgct 300  
 agagagaaac ttcttagtct catgaagtag accaagatca ttagttgcaa gcaaggtatc 360



atcaacatgt agaattagaa aaataacctt actccactg accttcaa atatacactg 420  
 at 422

<210> 594  
 <211> 229  
 <212> DNA  
 <213> Glycine max

<400> 594

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 gaagctcttg agcactatca atgatacataa cttttaactc ggatgtccga ttacgcgcga 120  
 taatatatcc acacatatca aattgaacaa tggaagctct tgagaaallc aaacgggtcat 180  
 aactatttac tcggagggcc gagtcagtct cactatatat tgagaccct 229

<210> 595  
 <211> 374  
 <212> DNA  
 <213> Glycine max

<400> 595

agctttcatt gttcaatttc tagcgactct atatcttatg cgcttgaatc tgacctgcga 60  
 gtgaaaagtt ttgaccattt gaattttctcg agagcttccg ttgaccaata ttgagcgcat 120  
 cgatatatta tacgcctgta tcggacctcc gagtgaaga ctatgagcat atgaaatgct 180  
 ctagagcgtc cattgttcaa tattgagcga ctcgatttat tatgcgcccg aatcggacct 240  
 tctacgtgaa ggttatgacc attggaatcc ctcgagagcg tcgggtgctc aatttcgagc 300  
 gtctggatat attatgcgcc tgaacatgac ttccgtgtga aaacttctga ccatttgtat 360  
 ttctcgagag cttg 374

<210> 596  
 <211> 443  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 596

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 gcccaagttg tctttcccat tatttatcac aaagcattta catcaacaaa tatgaagatg 120

ggaaatattt ggttttcttc ctttgtatag ttcatatggt gttttcttta agacaggat 180  
 aattaatgct tattcattat atagcatgca atattaacag cttcagccca aaaatattta 240  
 ggaagatttg tatcattaag taaagttcta gctaattctt ctaatatcta ttttctcttc 300  
 aactactcca ttttgttgag aggttctagg tgtagaaaaa ttatgttcta taccattttc 360  
 atcacaaaat aattcataat atttattctc agattctcct ccatgatcac ttctaattgga 420  
 tgcaatgttg agattnttct tat 443

<210> 597  
 <211> 525  
 <212> DNA  
 <213> Glycine max

<400> 597  
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 atcgagacgc tcaaaattta gatccgaagc tctgagaaaa ttgaattgac aataacttta 120  
 tacacggatg tccggttgag tctgttaata tatcgagacg ctgcaaattg aaaacggaag 180  
 ctcgtaggaa attcaaacga caataacttt ttactcggat gttcgattga atcgggtaat 240  
 atatcgagac gctcaaaatt gagactagaa gctctgagca aattgaaatg acaataactt 300  
 tatacacgga tgtccggttg agtcccgtaa tatatcgaga cgctccaaat tgagaacgga 360  
 aactcttagg aaattcaaac gacaataact ctttactcgg atgcccgaca gagtgctgta 420  
 atatatcgag agacgctcca tattgaaaac ggaagctcgt atcaaattca aacgacaata 480  
 actttttact cggatgtctg attgagtcct gtaatatatc gagac 525

<210> 598  
 <211> 491  
 <212> DNA  
 <213> Glycine max

<400> 598  
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 tcaaccacag cagaacaatt atgacctctc cagcaacaga tacaacctg gatgaaggaa 120  
 tcaccctaac ctcaaattgt ccagccctca gcaacaacaa cagcagcctg ctccttcctt 180  
 ccaaaatgct gctggcccaa gcagaccata cattcctcca ccaatccaac aacagcaaca 240

acctcagaaa cagccaacag ttgaggcccc tccacaacct tccctcgaag aacttgtgag 300  
 gaaaatgact atgcagaaca tgcagtttca gcaagagacc agagcttcca ttcagagctt 360  
 gactaatcag atgggacaat tagctacaca attgaatcaa caacagtccc agaattctga 420  
 caagctacct tctcaagctg tccaaaatcc caaaaatgtc agtgccattt cattgaggtc 480  
 gggaaagcag t 491

<210> 599  
 <211> 428  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 599

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 agcatcagca tattcctaac atgacatgac atcatgcaca tgtcaatagt ggacttcaaa 120  
 aatagcttac caagaaaata tacttacatg aagtcatgaa caatactatt atcaaagtct 180  
 cccacttgat ttgagttgga aaaataggcg caaccacatt acaaataaaa tattatagaa 240  
 gtcacatgag attcctttgt aaagacaaac catacctgaa actgtgcacg tgaatcagcc 300  
 tctagtttgg aatagaaatc acgttcctcc atagaaaaat caactttttt cagctctata 360  
 tacttagggc gcaaggaaat aatagggtcc ccgtcaagaa gtgtacctac agagaatgat 420  
 catcacat 428

<210> 600  
 <211> 453  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 600

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 tataaaagac cgctgatga tacttcatcc ccctttggat tatctgaaag tgaagaatct 120  
 ggagcggggg aaaacaaaat aaaagaaaaa gctgtgaatg gaagtgactt tgctatggcc 180  
 gcagataagg ctggggcttc tgtgtttcaa atgaggaaga ataagatatc aactgatgaa 240  
 tctggagata gtgtgcatag acaaggaaga agtggaagga atttatcatt agtaaggcca 300

gacctccctt ctgggagggga gaagtcagag aatgtaccaa caatgaagcc agtacaagac 360  
atgaagccta atgataagag taaaacgtaa gctggattta ttnttagatc tagttcatcc 420  
tttctacttc tattttccaa aactgtcctc ata 453

<210> 601  
<211> 439  
<212> DNA  
<213> Glycine max

<400> 601  
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catttggcaa gtacccatcc ttcttaattt ttgaatgaag atcatgacgt atatgcccc 120  
ggggctcata ttgagagcgt ggggtatcac caactacgaa tacttgact gtatcgacaa 180  
cttctatcca actacaacct gcctgctttt ttaaccccat gtccttcatt ctcatcctaa 240  
cgatcgctgc ttctttccat ttccctactg aagcatacat atttgaaagt aatgaatagg 300  
tgcttgacatt ctgtggatca attttcaaaa ttatctctgc tacaagcttc ccaatatcag 360  
catttccatg cacattacat gcagcaagga gcgctcacca gacagtcaat ggcacctctt 420  
ccccaagccc ctgaatgat 439

<210> 602  
<211> 473  
<212> DNA  
<213> Glycine max

<400> 602  
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tcaagacgct cgaaattgaa taccgaagct ctgagcaaat tcaaaccaca attacttttt 120  
actcgatgt ctgaatgagt cccgtaatat atcgacacgc tcgaaaatga atgtttatgc 180  
tctgagcaaa ttcaaacgac aataactttt tactcgatg tctgattaag tctcgtaata 240  
tatcgagacg ctcgaaattg aatactaaag ctctgagcaa attcaaacga caataacttt 300  
ttactcggtt gtctgagtga gtcccgtaat atatcgagac gctcaaaatt gaatgtttat 360  
gctctgagca aattcaaacg acaataactc ttactcgga cgtgtgactg agtcccctaa 420  
tatatcgcca cgctcgaaat agagtcttga tgctctgagc aaaatcaaac gac 473

<210> 603  
 <211> 437  
 <212> DNA  
 <213> Glycine max

<400> 603

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ttctcctttt gaagttgttt atggtttttaa cccactaact cctcttgatc ttttgcctat  120
gctaatagtt tctgttttta agcataaaga aggtcaagca aaggcggact atgtgaagaa  180
gcttcatgag agagtcaaag atcaaattga gaggaaaaat aaaagctatg ctaaacaagc  240
caacaaaggg agaaagaagg ttgtcttcga acccagagat tggggttggg tgcacatgag  300
aaaagaaagg tttccggaac aaaggaaatc aaagcttcaa ccaaggggat atggaccatt  360
tcaagtgttt gaaagaatca atgacaatgc ttacaaagtt gagctgcccg gcgagtataa  420
tattagttcc accttca                                                    437

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<210> 604  
 <211> 322  
 <212> DNA  
 <213> Glycine max

<400> 604

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tctacattca atttcgagcg tctcgatatg ttacgggact caatgatata tcccagtaaa   60
aagttgttgt cgcttgaatt ggctcacagc ttcaacattc aatttcgagc gtctcgttct  120
attacgaggc tcaatcagac atccgagtaa aaagttattg tcgtttgaat tggctgacag  180
cttcaacatt caatgtcgag cgtctcgata tgttactgga ctcgatccga catgcgagca  240
aaaagttatt gtcgtttgaa ttgtctcaaa gcttcgacat tcaatgacga gcctctcgat  300
atattacggg actcaatcag ac                                                    322

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<210> 605  
 <211> 378  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 605

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gagctaattc aaacgacaat aacatttttc teggatgtct ggatgagtcc cgtagcataa 120  
tcagacgctc gaaattgaat ggtgaacctc ttagctaatt caaacgacaa taactttttt 180  
cacggatgtc tgatagagtc ccgtaacata tcgagacgct cgaaattgaa tggatgaagct 240  
ctgagccaat tcaaacgaca ataactttnt tctcggatgt ctgatagagt cccgtaatat 300  
atcgagacgc tcgaaattga atgttgaaac tcttagccaa ttcaaacaac aataactttt 360  
tactcggatg tctgattg 378

<210> 606  
<211> 366  
<212> DNA  
<213> Glycine max

<400> 606

ggaatgaatt tgttttctag caaaacaaat tattatacct atagttcata ttgctaaatg 60  
gaccaatcta agttttgtgc ttttatttgt tttttgctta gctagtctct tcttaagtaa 120  
tctcccttgt ttttcttgaa caataggtgg cagaacgtaa caatgatcct caattggcag 180  
acttcattga gagcgagttc ttgtatgagc aggtaaaact tgcagttgaa ttcatagtat 240  
ggttggattt cataagatat aagactcctt gaccattgta tgtaatacaa tactctgaac 300  
tctttacgtt ctaaaataat tgggtgtcttt tacacggatc aagaaaataa taataaataa 360  
atgaat 366

<210> 607  
<211> 467  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 607

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tctcttgag gaagctctta gatgcccttt agatgggtctt cggaaaggac aagtgagtgc 120  
taagttttgg attaaacatt ttatgctgat atcagtgtctg aagtaatgta tttatatattg 180  
ttattctttt aaattgtagg cactgaataa tctagggagt gtctatgtag actgtgataa 240  
actggacctt gctgctgact gctacatgaa tgcactcaac atcaagcata cagcagcaca 300

tcaggggttg gcacgtgtat atcatcttaa aaatctccgg aaagcagcat atgatgagat 360  
gacaaagcta atagaaaagg ctcgagtaa tgcacagct tatgagaaac gttcagaata 420  
ttgcgaccgt gacatggcaa agagtgatct tagtatggca tcacaat 467

<210> 608  
<211> 407  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 608

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aacctttata ctttataaaa tatgcaaata tagtcttctt tttctaagaa ttcacatggg 120  
tttattagag ttaaaaaaaaa aaagagtaaa tgcatatata ttctaagct tgaaaatcac 180  
attattaata aaattacaag atttcaatta caattatggt cggtagagata tttcagtaag 240  
tttctagtat tttttattag ctgaaaaaat tatttgacta ttcgataaat aaaccatntt 300  
taatagttct taacattttt tgaacatta tttagaataa tattttttta aacgttaatg 360  
tttaactttt tatatnnttt tattnttatt tttgatatat ttattca 407

<210> 609  
<211> 390  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 609

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aagttcttat taaccctcta gcatatattt tttattctca tccataaaaa aataagaata 120  
gcttgatgta tatatactat taattaagaa tttttattat ttatactaata tatatgcaat 180  
tacttacaaa agttactttt tgacagaata tctcatatat tgaatctagt tggaacgatt 240  
caaaacacaa cttaaataatg ttttcaaatt atattgagat tgacttttaa aattaaaatc 300  
atcaaattaa ttttatgccaa aaaaaattag tgagatggaa caagtcataa ttactctgaa 360  
aaagagtnga actttatagt tttaactttt 390

<210> 610  
 <211> 355  
 <212> DNA  
 <213> Glycine max

<400> 610

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 cttaaccaat tagggtttat gggtatttga aaaattaagc tttagtgtta cttcaccagt 120  
 tagggtttag gattatgaga caatttataa ttacttgatt gatcactatt taggggtatt 180  
 tgaaatttgg gattcatagg ttacttgata aattggagtt tatgtgcgtt tatctaacta 240  
 gggttatgaa tacttgacta attagggttt agttttactt gatcgataat taagggttat 300  
 cgtacttgag taattaacgt ctttgggtac ttgacaaatt atgatttatg attac 355

<210> 611  
 <211> 310  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 611

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 tgatgtgagg atactttctt acatggtaag ctngaaaaaa aatccatag actcatgcag 120  
 aaagttntct cccaaaaggt gaagaaaggc aggtatgctt gctaaaaatg tcactttatg 180  
 gccttaagca atcacctcgc tagtgggtaca aaaggggttga tactttcatt ttttaataatg 240  
 gctttaaaag gtgcgagtat gatgggttat tttacttgan ngacaatgag catgatgcta 300  
 ttgtctactt 310

<210> 612  
 <211> 446  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 612

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 cggtagtat aatgttagtt ccaccttcaa tgtctctgat ttatctcttt ttgatgcaga 120  
 aggagaatcc gattingagga caaatccttc tcaagaggga gagaatgatg aggacatgac 180



caagagcaag ggcaaggatc cacttgaagg acttggagga cctatgacaa gggctagagc 240  
aaggaaagcc aaggaagctc ttcaacaagt gttgtccata ctgtttgatt acaagcccaa 300  
gtttcaagga gaaaagtcca aggttgtgag ttgtatcatg gcccanatgg aggaggacta 360  
aatgacacca ctttgtttca attttagagt gtttagtttg gctaaataat ggcccaatcc 420  
ttgtaaagtt ggctaacc aaatat 446

<210> 613  
<211> 382  
<212> DNA  
<213> Glycine max

<400> 613

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tcttctcaat caagtttctg gcttcagtag gagtcatgtc tccaagggct ccaccaccgg 120  
cagcatctat catacttctc tccatattac tgagtccttc ataaaaatat tggagaagaa 180  
gctgctccga aatctgatgg tgagggcaac tggcacatag ttttttaa atctctccagt 240  
attcatatat gctctctcca ctgagttgtc taatactga gatatccttc ctgatggccg 300  
aggtcctgga agcatggaaa ttttttttct aaaaatactc tcttaagggt atcccagctc 360  
gtgatgaacc ttggagcaag gt 382

<210> 614  
<211> 209  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 614

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tattggcaag caatttagaa tgagttttcc agaggagtca aacgcaagag ctaagaagcc 120  
acttgagcta atacatgctg acgttngtgg gccaatcaag ccaagctcac taagtaaaaa 180  
taactatttc gggcttttca ttaatgatt 209

<210> 615  
<211> 397  
<212> DNA

<213> Glycine max

<400> 615

tcattgcaact ggaacatgga aagaagacag tatatactat gcattgaaga tttctcaaac 60  
cttatcacc atacggcaa ttaaagaaag cttttaatgg aagccaagag aatgaaagta 120  
caccaaaaag ccttaggctg aaataaagtt tatgattggg taaaggacat cgtaagtatc 180  
tttggaaga acccaaagaa ggaatcattt gagaagaaca tatggaagaa aaggtaata 240  
ttctttgatc tttcactatg gtctgatcta gatgtacgac aatgtataga cataatgcat 300  
gtcatgaaaa atgtttgtga tagtttaatt ggcaccatta acattaaaga caagacaaag 360  
gatggtttga aatgtcatca atatttgatt gacatgg 397

<210> 616

<211> 355

<212> DNA

<213> Glycine max

<400> 616

ttacatgtca aattcttggt cccaccacat tatgagtttt taagttaaag gggcagcatg 60  
ttgatatact gaaagattca atgttccaaa tgaataataa tcaagtggcc tagtgcattc 120  
gaatttttga taatcaaata aatgcataag cctttaagc atgttttgat gtccatagaaa 180  
tagtagattt ttaacatttg agcaagaaaa tcaaacata cagtcattcac tctgtttgct 240  
gcactgacac cagcttcacc aaacatagca gttgctgctt cagtgcacag agcagttgcc 300  
ccaatattga ccacctgca tacaacaaaa tactagcatg agaaacattc tatac 355

<210> 617

<211> 354

<212> DNA

<213> Glycine max

<400> 617

tctgttggtc aatttcgaac gtgtcgatat attatgcgtc ttgaatcgta cctccgagtt 60  
aaaagttatg accatttgaa tttctcgaga gttccggtt ttcaattacg accgtctcta 120  
tatattatgc gccttaatcg gacctccgag tgaaaagtta tgaccatttg aattggtcaa 180  
gagcttccat tgttcaattt cgagcgtctc gatatattat gcgcccgaat cggacatccg 240

agtgaaaagt tatgaccatt tcaatttctt gagagcttcc gttgttaaatt ttcgagcgtc 300  
 tcgatatatt atgtgcctga atcggacctt cgagttaaaa gttatgacca ttg 354

<210> 618  
 <211> 347  
 <212> DNA  
 <213> Glycine max

<400> 618

tctgcatgtt tagagatttc tagttagaga atgttttatt cgggttgctt ggggactgga 60  
 cgtaggcaca aggggtgtggc cgaacctgta taaatttgag ttgcacttt cttttccctt 120  
 aatctccttt atttattatt gctttatatt catattcaaa ttgttttatt tgaatcaata 180  
 tttagaaga ttgtcattaa gggaattcat aacttgaata aaaagtgaaa tacattttta 240  
 attggggaag tagtttgga tatcttaatt caaccccccc cccttcttaa gatatctgag 300  
 gccgcttgct taacaagtgg tatcacagct ttattcttgt ataaagt 347

<210> 619  
 <211> 395  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 619

gcttgtgcat tcaatatacct gatgaggggtg ttccatatgt tctcaagact gttctaatac 60  
 attcgtgcc caagcatcat ggtcttgag gtgaagatcc tcataagcat cttaggagt 120  
 tccatattgt ttgttccacc atgaagcccc ctgatgtcca ggaagatcat atctttctaa 180  
 aggcttttcc tcattctctg gagggagtgg caaaagattg gctttactac cttgctccca 240  
 agtccatttt cagctgggat gaccttaaga ggggtgttctt ggagaaattc ttccttgc 300  
 ccaggacat tgccatcaga aaagacattt caggcatcan gcaacttagt ggagaaagcc 360  
 tgtataagta ctgggaaaga ttcaagaaat tatgt 395

<210> 620  
 <211> 473  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations

<400> 620

cggatcctta agcacctgcg gctgcaagct tgaatattta agcaagagtn tggagtgcac 60  
attgaagtta ctaagatgtg gagagccatg aaagaagcaa agcaactagt ggaaggggaat 120  
gagaggaaac aatatgccaa agtatttgat tatgcacatg aattattgat gagcaatcct 180  
ggatcaacag ttaaaatcaa cacagtgcc agtccagaag gtccaccaca attttagagg 240  
ctatatattt gtcttgctgg ctgtaagaag gggtttggtg ctggatgtaa accattcata 300  
ggcttagatg gatgtttact aaagagtgc tttggaggaa acttgctttc ttgctgtggg 360  
cttgatgaca ataaccacat ctttgttatt gcttatgctg ntgnngacat tgagaacaaa 420  
gacaattgga aatggtttta actttgntgc atgaagatct tggggattac ata 473

<210> 621

<211> 307

<212> DNA

<213> Glycine max

<400> 621

agcttccatt ggttgaattt gaggacctcg atatatatgc gcctgattct aatctccgag 60  
tgaaaagtta cgaccatttg aattcctcca gagcttccat tgttgaattt cgagcgtctc 120  
gatatattat gcacaagaat cggacctctg agtgaaaagt tatgaccatt tcaatttctc 180  
gagagcttcc gttgctcaat ttctagcacc tcgatatatt atgcgcctga atcggacctc 240  
caagttaaaa gctatgacca tttgagattc tcgagagctt ccgttggtca atctggagcg 300  
tctcgat 307

<210> 622

<211> 363

<212> DNA

<213> Glycine max

<400> 622

tgttgaatta ccgaaaggaa ataaggtagt tgtagcataa tggatatttc ataacaaatt 60  
ggacgaaaat ggtgaggttg tgagaaacaa ggcaatatta gtctctaaag gtgactcaca 120  
ataggaaggt ataaactaca tagaaacttt tgcacatatt gcacgtttag aagcaatag 180  
catcttactt tcatttgcaa cctatagtaa tatgaagttg tattaaatgg atctaaaaaa 240

cacattttta aatggattaa tccaagaaga agtttctatt gaacaatctc ctggatttca 300  
aagtgaaacc cttcttcaac atgtttttta actcaacaaa gcatcatatg gacttaaaca 360  
agc 363

<210> 623  
<211> 442  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 623

gcttgctaac ccatggaagc tcctaataatc tcccacactn tntaggttgt gccattcttg 60  
gatggccttg attntcttag ggtccacttg gaccccatct ctaccaacta caaacctaa 120  
gaaaactata ttatctatac aaaaggtaca cttctctata ttttcataga ggggtgtntt 180  
cctaaggact gaaagaactt gtctgagatg tcctaagtga tcacttagcc tcctactata 240  
cactaaaata tcatacaaat aaaaaactac aaatctacct atgaaatccc ttaagacatg 300  
atgcataagc ctcataaagg tgcttggtgc attagtgagc ccaaaaggca tcactagcca 360  
ttcatacaaa ccanacttgg tcttgaaagc agntttccac tcataccct ttttcatcct 420  
gatttggtga taaccacttt ta 442

<210> 624  
<211> 463  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 624

gcttatgctg canacactta taatagacct ccttaacagc aaaaccttct tcaatagaat 60  
aattatgacc tttcaagcaa tagatacaat ccagggttga ggaatcatcc aaatctgaga 120  
tagacaagtc ctccacaaca acatcagcct gtccctcctt tccaaaatgc tactgggtcca 180  
agcaagccat atgttcctcc tccaatgcaa caacaacagt agcagtcaca acaaagacaa 240  
caagcaactg aggctcctcc tcaaccttcc ttagaggatt tagtgaggca aatgaccatc 300  
cagaatatgc aatttcagca agagacaaga gcctccattc agagtctgac aaattagatg 360  
gggcagatgg ctactcagtt gaaccaagct caatcccaa attctgacaa attgccttca 420

caaactatgc agaatccgaa aaatatgagt gccatcacct tga

463

<210> 625  
<211> 360  
<212> DNA  
<213> Glycine max

<400> 625

tcagaattca atttcgagcg tctcaatata ttacgggact caatcatata ttctgcaaaa 60  
aagttattgt cgtttgaatt agctcagagc ttcagaattc aatttcgac atctcgatat 120  
attacgagac tcaatcagac atctgagtaa aaaagttatt gtcgtttgaa ttagctcaga 180  
gcttcaaaat tcaatttcga tcgtcttgat atattacagg actcaatcag acatctgagt 240  
aaaaaagtta tggctgtttg aatatgctga gagcttcaac attcaatttc gagcgtctcg 300  
atgtattacg ggaatcaatc agacatccga gtaaaaagtt attgccgttg gaattagctc 360

<210> 626  
<211> 430  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 626

agctntgagc taattcaaac gacaataatg ttttgctcgg atgtctgatt gaggcccgta 60  
atacatcgag acgctcgaaa ttgaatgttg aagctctcag caaattcaaa cgataataac 120  
tttttactcg gatgtttgat tgagtcctcg aatacatcga gacgctcgaa attgaatgtt 180  
gaagctctca gcaaattcaa acgacaataa cttttttact cagatgtctg atagagtccc 240  
gtaatatatc gagatgatcg aaattgaatt ctgaagctct gagctaacc aaacgacaat 300  
aactttttgc tcggatgtct gattgagtcc cgttatctat tgagacgctc gaaattgaat 360  
tctgaacctc agagctaatt caaacgacga ataactttta ctcgatgtg tgattgagtc 420  
ccgtaataca 430

<210> 627  
<211> 388  
<212> DNA  
<213> Glycine max

<400> 627

tgacacttcg agaattatac aatactcaag cttcccgcga atgggtatttg aggtttaatg 60  
 ataccattat ttcctttaga ttttaaggaaa atactgttta tcgggtgatg tatctgaagg 120  
 tcagtgggag taaggttatt ttctaatttt gtatattgat gatatcttgc ttacaactaa 180  
 cgatcttggg cttcttcgtg agactaagaa atttctctct agaaactttg aagtgaaaga 240  
 tatgggtgag gtaagctatg tgatagggat aaaaatattc cataatagat cacaaggatt 300  
 gttagggttta tctcagacag tatatatatc gataaagtgc tagagagatt caagatggaa 360  
 aggtgtttaa cattgcctac tctaattt 388

<210> 628  
 <211> 449  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 628

agctntaagg tgtgcaactc caccattttc atattagaac actggtaatg ggtctactat 60  
 cattgttacc atttatttct ccatcattga ggtgccactt gagctgccag gtctctccac 120  
 ctttgggtgt attctttgaa acatttgtgc ccttttttgc acatgttctg tagttgcac 180  
 ctatctggag ccatatcaga attgtactga cactgcctaa cgaaagcaac tattagggtcc 240  
 ttccaagaat ggactcggga aggttccaag ttagtgtacc aggtaacagc taceccagta 300  
 agactttctt gggagaaatg tatcagtagt tctcatctt ttgcgtatgc cccaccttc 360  
 cgacaataca tcttttagatg gttcttgggg aaagtagtcc ccttgtactt gtcaaagtcc 420  
 ggcaccttga acttgggagg ggtaatgat 449

<210> 629  
 <211> 358  
 <212> DNA  
 <213> Glycine max

<400> 629

tcaacattca attttttagcg tctcgatgta tgacgggact caatcagaca tccgagtaaa 60  
 aagttattgt cgtttgaatt agctcagagc ttcaacattc aattttgaga gtctcggtat 120  
 attacgggac acaatcagac atccgagtaa aaagttattg tcttttggat tggctcagag 180

atttaacatt caatttcgag cgtctcgata tatgacggga ctcaatcaga catccgagta 240  
 aaaagttatt gtcgtttgaa ttgctcaga gtttcaacat tcaatttcga gcgtctcgat 300  
 atatgacggg actcaatcag acatcccgag taaaagttat tgctggttga attagctc 358

<210> 630  
 <211> 435  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 630

agctntgagc caattcatatc gacaataact ntttactcgg atgcctgatt gaggcccgta 60  
 atatatcgag acgctcgaaa ttgaatgtgg aagctctgag ccaattcaaa cgacaataac 120  
 tttttactcg gatgtctgat tgacgccccg aatatatcga cacgctcgaa attgaatgtt 180  
 gaagctctga gcaaattcaa acgacaataa ctttttactc ggatgtctga ttgagtcctg 240  
 tcatatateg agacgctcga aatngaattgt tgaagctctg agccaattca aacgacaata 300  
 actttttact cggatgtctg attgagtcct gtaatatatc gagacgctca aaattgaatg 360  
 ttgaagctct gagccaantc aaacgacaat aactntttac tcggatgtct gattgagtc 420  
 cgtcatatat cgaga 435

<210> 631  
 <211> 435  
 <212> DNA  
 <213> Glycine max  
 <400> 631

agcttgtatt tctctcccat ggttgatata atatctatga tggatcaaa gctcttcctt 60  
 tgaagagccc tgctgcgcta cttatattct tcctctcgat tatcatatcc ttcatctta 120  
 catcatgagt gaacaacaac aagatcaatc acttaatgta cacagtcctt attaccttta 180  
 tctgggagaa aatccagcga tagctttggt ttcttcgggt cttgattcat ccaattataa 240  
 ttcatggagt cgatctatgc ttattgcatt aagtgc aaag aacaaatctg agtttgcga 300  
 tggtttttatt caaagacctg catcagatca tgcacttcat gcagcttgga agaggtgaat 360  
 aatatgggtga ttctgtggtt ggttcattca atctctcttt caattaggca aacatactat 420  
 ggatggataa tgcac 435



<210> 632  
 <211> 461  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 632

agcttatgct acanacatct acaatagacc tcctcctcct cagcggctat ataagccaca 60  
 acagaacaat tatgacctct ncagcaacag gtacaaatcc gggaggagga atcatccaac 120  
 cttagatggc cgaatccttc acaacagtag caacaacaat aacaggctta ttttagaatg 180  
 ttgctggccc aagcagacca tacgttcttc caccaatcca gcagcaacaa cagcaacagc 240  
 cccagaaaaca acaaatagtt aaggctcttc cgcaaccttc ctttgaagaa ctngggaggc 300  
 aaatgactat gcaaaacatg tagtttcaac aagagaccag agcctccatt cagagcttaa 360  
 ctaatcagat ggaacaattg gccacacagt taaatcaaca acagtcccag aattctgaca 420  
 gaataccttc tcaatctgtc cagaatccca caaatgtgag t 461

<210> 633  
 <211> 300  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 633

gcaagcttga gcagantcan acgacaataa ctnttaatcg gacggcattt gttcccctaa 60  
 atatcaaact gtcctcaatt gaaaatggaa gctcgtagca aatttaaacg agaataactt 120  
 tttactcaaa tgtgcgattg agtcacgtaa tatatcgaga cgctctaaat tgaaaacgga 180  
 agctcatagc aaatgtaaac cgtaataacc ttttaactcg atgtccgatt gagtctctgtg 240  
 atatattgag acgctcaaat atgaaaacag aagctctgag caaattctaa caacaataac 300

<210> 634  
 <211> 399  
 <212> DNA  
 <213> Glycine max

<400> 634

ctaagcttaa gaaaaagatg gcttcagcaa attccttatt tccagtaagg aattctatca 60

atagacctcc aatctttaat ggagaggggtt accactactg gaaaaccga atgcaaattt 120  
 ttatcgaggc aatagatcta aatatctggg aagccattga aataaggcct tatataccca 180  
 ccacagtaga aagagtttca atagatggta gttcatcaag tgaaagcata accatagaaa 240  
 aacctagaga tagatgggtct gaagaggata gaaaacgagt acaatacaac ctaaaagcca 300  
 aaaacataat aacatctgcc ctaggaatgg atgaatattt cagagtttca aattgcaaga 360  
 gtgctaagga aatgtgggac actcttcgat taacacatg 399

<210> 635  
 <211> 234  
 <212> DNA  
 <213> Glycine max

<400> 635

tctcatgatg aaaaatcacc attgaaggac ctcatgaag atcaaagatc cagcctccat 60  
 agaagctcca caagcaagct tccatcaagt tatgaccatt tgaatttctc gagatcttcc 120  
 gtggttcaat ttcgggcgtc tccatatgtc atgtgcctga atcggacctc cgtaagaaaa 180  
 tatatgacca tttgaacttc tctagagctt tcgttggtta atttcgagct tctc 234

<210> 636  
 <211> 389  
 <212> DNA  
 <213> Glycine max

<400> 636

tttctcagtc gtctgtaagg atgatttgtt gttagaaagc gacgatccct actgtagact 60  
 gtttttctgc catgtttaag ttgtatgtaa cttgtatttt cttcacagat ggggcatgca 120  
 tgatgaccct taacactgta accgctgaga tccccatatg ctggaaagtc attaatggta 180  
 caaaaaagca ttgcacgcat ttcaaaggct tccttggtgaa acacatcaaa cactacaacc 240  
 ccctcgtccc acaactttct cagatcttca accaacagac ttagataaac atcaatgtca 300  
 tttcctggct gtcttgggct cgatatcatc atagacaaca tcatgtattt tcgcttcatg 360  
 cataaccaag gaggcaaatt gtaaattac 389

<210> 637  
 <211> 482

<212> DNA  
<213> Glycine max

<400> 637

ttaagcacct gagctgcagc tatgctgaaa cattataata gacctctcta gcagcaaaac 60  
catctacaat agaataatca tgacctttca agcaatagat acaatccagg ttggaggaat 120  
catccaaatc taggatggac aagtccctca caacaacaac agtctatccc tccttttcag 180  
aatgctgctg gtccaagcaa gccatatgtt cctcctccaa tgcagcaata gcagcaacaa 240  
caacaagac aacaagcaac tgaggcccct cctcaacctt ccttaaaaga gttagtggag 300  
caaagacca tccagaatat gcaatttcag caagagacaa gagcctccat tcaaagtctg 360  
acaaatcaga tagggcagat ggctacttag atgaatcaag ctcaatccca aaattctgac 420  
aaattgcctt cacaaactgt gcagaatcca aaaaatgtga gtgccatcac cttgaggtct 480  
gg 482

<210> 638  
<211> 372  
<212> DNA  
<213> Glycine max

<400> 638

agcttcgggt aatctcaaag ctacaaaaac ataacctcgt tttaggatta ccaagtatgt 60  
catacaaaga tgatttactt tatgaggcat gtgaaaaggg aaaaaaatta aaaaactctt 120  
ttttcaagaa aaaacattgt ttccacctca agaccttaca tattgatctg tttagtccaa 180  
ccaaaagaca tctatcaggg gaaaaaagggt attgactcat cagagccgat gactactcta 240  
aatggacatg ggtaacttc ctagectaga agaatgaatc ttttagtgtc ttctttaaat 300  
tttgtaaaag aattcaaaat gaaaagaatt atgcattacc ttaatcaaaa gtgatcatat 360  
gggagaattt ga 372

<210> 639  
<211> 370  
<212> DNA  
<213> Glycine max

<400> 639

tatagcttac ttattatcca caaaaagctt cactccatta ctttccttga tttttaattc 60

ttgtaataat gtgtccaacg agacagcttg gcaagcactc attgtagctg gaacatactt 120  
 agcttcacat gttgataaag ccactatgga ttgcttctta gaactccatg atattggtgt 180  
 tgcaccatac atgaatatgt aacctatagt actctttctg tcctctctgt ctctctccca 240  
 atccgcatca gtatatccca ctaattcctc tgagttggtg ttgtctttat ttggaaatag 300  
 aattccagta ttgatgggcc cttttatgaa ccttagaatc ctcttagcag ttaggagatg 360  
 aggaattctg 370

<210> 640  
 <211> 369  
 <212> DNA  
 <213> Glycine max

<400> 640

ttcactcgca tgtccgattc aggcgcatag cgtatttata cgctagaaat ctaacaaagg 60  
 aagctctcga gaaattcaaa tggtcataac ttttactcg catgtccgat tcaggcgcat 120  
 aacatatcga gacgcttgaa attgaacaac tgattttctc gagaaattca aatggtcata 180  
 acttttaact cgcattgctg attcaggcgc ataacatc gagacgctcg aaattgaaca 240  
 acggatgttc tcgagaaatt caaatggtca taacttttca ctctcatgtg cgattcaggg 300  
 gcataactta tcgagacgct cgaaattgaa caacggaagc tctcgagata ttcaaattag 360  
 cataacttt 369

<210> 641  
 <211> 311  
 <212> DNA  
 <213> Glycine max

<400> 641

tacttcgggc gtgtattata gagcaacaag gtagcttgat ggattgtttg ccattgattg 60  
 agtttactta caacaatagc taccaagcca gtattggtat ggctcctttt gaagctttat 120  
 atggacgaaa gtgcaaaact cctaattggt ggatgatga tggagaagca gtacttcttg 180  
 gacctgaaat gctacaacag attaacgaac aagtgaagtt gatttgagag aagataaagg 240  
 catctcacga taggcaggag agctattatg atagaaggag gaagccacta tattctcagg 300  
 aaggagaaca t 311

<210> 642  
 <211> 321  
 <212> DNA  
 <213> Glycine max

<400> 642

tctcgatata caatagggct taatcggaca tccgagttat tagatattgt cgttagattt 60  
 ttctcagagc ttccattttc aattacgagc gcctcgatat tcaacgggac tcaatcggac 120  
 atccgagtca aaagttattg tcggttgaat ttacttagaa gttctgtttt caatttcgag 180  
 cgtctcgaaa tattataggg ctcaatcgga catccgaatt aaaagttatt gtcgtttgaa 240  
 tatacttaga gcttttgtat tcaattacga gcgtctcgat attctacagg acacaatcgg 300  
 acatccgagt caaagatatt g 321

<210> 643  
 <211> 433  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 643

agcttgatct tttagttttt tatctntaat ctttaatccc tgaacgaact attcaagttt 60  
 gtaattcgaa ctttaattat cttttaattc gttcctaaag atagatcgcc aaatctgttg 120  
 ctaactgcac attaatctgt taaagatata acagatttat gtgtccagta ttttcgggca 180  
 agatgtcctg gacatcgat cgcacatcgt ggatcctgca gtttcaattc ttcatttgac 240  
 attntatctt gccttggtgca ttgtgcagcc caatctgatt ccttgacata acgttggaca 300  
 tcatgtgcag caactctagc tttccttcat tatctaagtg cttatggttt aacaaaattt 360  
 tagccaatct tttaaaactc agtaaagcta agcactaaca atctccccct ttggcanatt 420  
 tgtctaaaca tac 433

<210> 644  
 <211> 445  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 644

agcttatgct gcanatattt acaacagacc ttcttatect cagcagcaga atcaaccaca 60  
 gcagaacaat tatgaccttt ccagcaacag atacaaccct ggatggagga atcacccata 120  
 cctcagatgg tccagccctc agcaacaaca gcagcctgct ccttccttcc aaaatgctgc 180  
 tggcccaagc agaccataca ttctccacc aatccaacaa caacaacaac cccagaaaca 240  
 gccaacagtt gagggccctc cacaaccttc cctcgaagaa cttgtgaggc aaatgactat 300  
 gcagaacatg cagtttcagc aagagaccag agcctccatt cagagcttaa ccaatcagat 360  
 gggacaatta gctactcaat tgaatcaaca acagtcccag aattctgaca agctgccttc 420  
 tcaagctgtc caaaacccca aaaat 445

<210> 645  
 <211> 437  
 <212> DNA  
 <213> Glycine max

<400> 645

tatttaagag gggaattatg caaggttgta aacttgtaat gtattgtgat tataatttgt 60  
 actattataa gttgtaagct ttggagaag caaagttgtt gaagttatgg aaggtaatgg 120  
 tagaaggagg aggcgcact tcagcagaat ccattgcatt tcttgaggaa aagcttcatt 180  
 caaaggggag cattcactca taggcggtcc tggattctca aggatagtgt actgcaacga 240  
 agcggaacgc ggtgagggga gtcttgtag ctatggtgac aattatgtga gtactactaa 300  
 gtatacagtg gccactttcc ttcccaagtc cttggttgag caattcagga ggggtgccaa 360  
 tttttacttc cttatctgtg caattctgtc tttattcccg gtttctcctt actcggctgt 420  
 cagcaatggt gttcctc 437

<210> 646  
 <211> 459  
 <212> DNA  
 <213> Glycine max

<400> 646

tagagcctcg ggtagttcat taaatatttg ttccatttca tccaagctca tattgtccaa 60  
 aacggagggt ctaggggcaa cctcacaat ttcaccacct ttgggtcct gaactcgtgc 120  
 gtcggcttta atgactagtt ctgaattaga gtttgcacca cattttatta taaatggtga 180

ggctgagcca gtattaaatt ggagtagatt ccactgtgta acgtcagttt cagatccaga 240  
 gccagatct gttgatggca tgcgatcatg agatatatct tgaatggggg catctttctt 300  
 aggaattgac tgtatcataa caaaataaag gattcaggca tcaaagaaaa tcaatccaaa 360  
 ttaattttca tcagttgagt cctttagcat attataaaat tgttaccaac ttggacaacg 420  
 gatgaaagaa gttaagcata caatacaca tacttcgca 459

<210> 647  
 <211> 397  
 <212> DNA  
 <213> Glycine max

<400> 647  
 actcagctgg gaaattatgt tctaataatga ctatctttga tctaagctat tataaagctt 60  
 gttgcaagct cgtaatttat aattgaaagt tattaacttg acttattgaa atataaatgt 120  
 ttgaataaaa tatatactgg aataattgat ttaataaaa taattaaatc ttataaacat 180  
 attcatatga tattcttata taatttttaa cttttttatg tcaattagta aaatataata 240  
 cacatatcat ctatcgataa caatatcttg atgtaatgct gaaataataa aataaatatc 300  
 gttaatatta taatggataa acattgtaat ataaaaatat ccgcataata ttaatataat 360  
 aaatcacaca tacattatta tctatcatta ttaatat 397

<210> 648  
 <211> 464  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 648

ntgaagatat tcaaatgaaa ataccttnta actcggatat ttgagtgagt cccataatgt 60  
 attgagacac tcgaaataga atacagaagc tgtaagcaaa ttctaacgtc aataactttt 120  
 tactcgaatg tccgaatgag tcacgtaata tatcgagaca ctcgaaattc aatacagaat 180  
 ctctgagcaa attctaacga caataacttt taactcagat gtctgatcga gtcccaaat 240  
 atatacagac gctcgaaatt gaatacagaa gctctgagca aattcaaacg atgataagtt 300  
 ttaacttaga tgtccgatcg agtcccacaa tatatcaaga tgctagaaat tgaatacaga 360

agctgtgagc aaattctaatt gacaataatt ttttacttgg atgtccaatt gagtcgtgta 420  
 atatttcgag acgctcgana ttgaatagag aagctctgag gaaa 464

<210> 649  
 <211> 267  
 <212> DNA  
 <213> Glycine max

<400> 649

acttttatgc tgaacaaatg atggccttgaa tgtgaaaagc atgttgaaat gagaaacttt 60  
 gaaaatttta aaattggaaa aatttcagaa aatggtttct ttagacatga aggcttttct 120  
 ttttaaaaaa acaaattgtg tgtgcctaaa tgttctacta aaaatttgct tgtttgtgaa 180  
 gcacatgagg aggtttaatg gggcattttg gggtcacaaa gactctataa acattacaag 240  
 aacagtttta ttggcctcat atgaaaa 267

<210> 650  
 <211> 465  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 650

tctagactnt atacaagaat gaagctctga caccacttgt tagactagtg tcctcagata 60  
 tcttaagaag ggggttgaat taagatacta caaactatct cccaattaa aattctatct 120  
 caatttcaat gcaagttaca agttcccttg aaaatgaact cttaaataat gattcaaata 180  
 gaacaatatg aatataaatg taaagcaata acaataaaaa gagtttaagg gaagagaaaag 240  
 tgcaaaactta gatttatact ggtttggtca cacccttggtg cctacgtcca gtccccaagc 300  
 aaccggcttg agagtttcaa tatcttgtaa aattccttta caatttctga acacacaagg 360  
 acaatacttc ctttggtggtc agatttcttt acaacaagag accctcggtc tctcaatccc 420  
 ctttgagaat ttgaaagaa gagaagaata aatctctctt gaaag 465

<210> 651  
 <211> 405  
 <212> DNA  
 <213> Glycine max

<400> 651



agcttatgct gcaaacattt acaatagatc tectcaacct cagcagcaaa atcaaccata 60  
gcaaaaaaat tatgacctct ccagcaacag atacaacctt ggatggagga atcacccata 120  
tctcagatgg tctagccctc aacaacaaca acagcagcct gctccttctt tccaaaatgt 180  
tgctggccca agcagaccat acattcctcc accaatccaa caacaacaac agccccagaa 240  
acaacaaca gttgacgctc ctccgcaacc ttcctctgaa gaacttgatg ggcaaatgac 300  
tatgcagaac atgcagtttc aacaagagac cagagcctcc attcagagct taactaatca 360  
gatgggacaa ttggctacac aattaaatca acaacagtcc ctgaa 405

<210> 652  
<211> 387  
<212> DNA  
<213> Glycine max

<400> 652

agctttctata gaaggttcgt tcttaatttc tctacaatcg catcacctct caatgagctg 60  
gtgaagaaga atgtggcatt tacctggggg gaaaaacaag agcaagcctt tgctttgctc 120  
aagaaaagct tactaaggca cctgttctag ctcttctga cttttctaaa acttttgagc 180  
tagaatgtga tgctctgga gtgggagttg gagctgtatt gttcaaggtg ggcaccctat 240  
tgcttatttt agtgaaaaac ttcatagtgc caccctcaac taccacacct atgataaaga 300  
gctttatgcc ttaataagag cctccaaac ttgggaacat taccttggtt ccaaggaatt 360  
tgtcattcat agtgatcatc aatcact 387

<210> 653  
<211> 386  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 653

agcttgctcaa agaatccaac ctctcatggg agaagcaaac acatagaaac aagatttcac 60  
tatcttaggg atcaagtga ccaagagaaa ctgaaagtgg agtactgcta cacatttgat 120  
caacttgctg atattttaac caaacccctc aaaggggaga ggtttaaaat gtttaagggg 180  
ataattggct tgatgaactt aggagatcag aattaaggga aggtgtgaga gtttaatttt 240

gttttgtgtg gggtagattt gtttgtgctt tgaatataag agagagtaac agaattttta 300  
aattctgtta taagtactag cctaagtgtg aagggttatt actctgtntt tgcttgtata 360  
aaagggcata catacatctt aataaa 386

<210> 654  
<211> 358  
<212> DNA  
<213> Glycine max

<400> 654

aatttctccc acacttttgg ggagggccat tgctggatgg ccttgaatat actagggtag 60  
acttggaacc tatttctacc acctacaaaa cctaagaaaa ctattttatc tacacataag 120  
gtactcttct ctatatttgc atagaggggtg ttttccctaa ggactgaaag aacttgcttg 180  
agatgtccta agtgcacatc tacgctccta ctatacacta aaatatcatc aaaataaaca 240  
actacaaatc tacctatgat atcccttaag acatgatgca taagcctcat aaagtgcttg 300  
gtgcattatg gagcccaaaa ggcattacta tccttcttac aaaccacact tggctctg 358

<210> 655  
<211> 403  
<212> DNA  
<213> Glycine max

<400> 655

agcttgataa cccattcttc tttccttatt acatgatgca taagcctcat aaaggcgctt 60  
ggtgcattag tgagcccaaa aggcacact agccattcat acaaaccaaa cttggctctg 120  
aaagcgggtt tccactcatc accctttttc atcctgattt ggtgataacc acttttaaga 180  
tcaatttttg aaaaggtatt ggcacatgc aactcatcaa gaaaatcatc aagtctagga 240  
atggggtgcc tatactttac agtgcatttg ttgatggccc tgcaatctgt acacattctc 300  
catgtaccat cttttttggg caccaacaac actggcaca cacatgggct taggctctct 360  
tggaaccaac cttctccaa caattcttta acctgagact cta 403

<210> 656  
<211> 469  
<212> DNA  
<213> Glycine max

<400> 656

ttaggacact tgaaactcag cttcttatcc aggetcatct tgggtggtgaa gctccttctt 60  
ccatggctta ttcttatgc gctgaatcg aacatccgag tgaaaagtta tgaccatttc 120  
aatttctcga tatcttccgt tgttcaattt cgagcgtctc gatatgtgat gttcttgaat 180  
cggacctccg tgtgaaaagt tatgagcatt tgaatttctc gagagcttac gttgttcaat 240  
ttcgagagtc tcgacatgtg atgtgcctga atcggaccac cgcgtgtata gttatgacca 300  
tttgaatttc tcgagagctt ctgtcgttca attgcgaggg tctcgatatg tgatgtgcct 360  
gaatcgaaca tccgagtga atgttatgac aattctaatt tctcgagagc ttccactggt 420  
caatttcggg cgtctcgata tattatccgc ctgaatcgga catccgagt 469

<210> 657

<211> 336

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 657

agcttgcaact aagatttctg attcagggtc ctaatgtatc gagacattgg ttattgaaca 60  
atggaaactc ccgagaaatt aaaatcgtca ttacttttca ctccgatgtc cgattcagggc 120  
acttcagata tcgagacgct cgaaattgaa caacggaagc tctcgagaat ttaaaatggg 180  
cattacttta cacatggagg tccgattcat aaacatcaca tgctgagatg ctcgaaattg 240  
aacaacggaa gctgaagaga atttcaaatt gtcataactt ttcacttggg tgtccgatnc 300  
aggcgcacatc ttatcgagg cattgggttat tgaaaa 336

<210> 658

<211> 389

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 658

agctnttgca agctggaatc atttatecta tctccgatag ccaatgggtg agtcccgtcc 60  
aggtagttcc aaagaaaatc ggcctcaccg tgataaaaaa tgagaaggag gagttgattc 120  
ctactcgagt gcagaacaat tggagagtat gcatcgacta taagaggctg aaccagggtta 180

ccaaaaagaa ccattttcca ctgcctttca ttgaccagat gcttgaacgc ctggcaggta 240  
aatctcacta ctatttcctt aatgggtttt ttgggttatat gcaaactact attactcctg 300  
aggatcagga aaagaccaca ttcacctgcc ccttcggcac ttttgccat aggaggatgt 360  
ctttcggcct gtgcaatgcc cctgggtacc 389

<210> 659  
<211> 456  
<212> DNA  
<213> Glycine max

<400> 659

tgtgcattca atactctgat gaggggtgtt catatgttct taatactgga ctaatacatt 60  
tggtgccc aa gtttcatggt cttgcagggt aagatcctca taagcatctt aaggagtcc 120  
atattgtttg ttccaccatg aagccccctg atgtccagga agatcatatc tttctaaagg 180  
cttttcctca ttctctagag ggagtggcaa aagattgggt atactacctt gctcccagggt 240  
ccattttcag ctgggatgac cttaaagagg tggtcttgga gaaattatc cttgcatcta 300  
ggaccacttc catcagaaaa gacatttttag gcatcaggca acttagtgga gaaagcttgt 360  
atgagtactg ggaaagattc aagaaattgt gtgcaagctg tcctcaccat cagatttctg 420  
agcaactcct tcttcaatat ttctatgagg gactta 456

<210> 660  
<211> 377  
<212> DNA  
<213> Glycine max

<400> 660

agcttcacat aatttttttt tcacaaactt tagttttgga agaccaatta ctaaactctt 60  
cctaactaga tgattgagat gatgcatgtt tatgtgtgca gtccatacat gccacaacca 120  
agaatcatct ttcttactta ccaacaact cagttcatga aacgatgcat gttcaatgtt 180  
taacatatag atattaccta tctttttacc aatatggaca acctcactgg atatggcttc 240  
actagtaagg caacaattct tggtgaattt gattttgaag cctttgtcac atagtgtggt 300  
aatgtctagg aggttatgct ttagtctatc aacatataga acattctttg tttgtgtttt 360  
gtactaattt ccaatat 377

<210> 661  
 <211> 447  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 661

ttgcatactt ttgaatctgc ttgatggcat ctagcagagg tatgttcacc tctactttct 60  
 tgaaggcttc caagatctcc tttccgctt ctccatttt tttgttttg aattgcttta 120  
 ggtgggaatg gaagagggat aggaggctgc tgtaagtcag aattactaga agaaggctca 180  
 cctgcatgaa aatttttgtt aggaagctct ctcttttgg caactatctc atcctctttt 240  
 tcagggtgtag aatgaagctt gacagggttca ngtgcagggtg ctgctactta tggaggcact 300  
 tgaatttggg tgccagacct caacgtgatg acactcacat tntttggatt ctgcacagtt 360  
 tgtgaaggca atttgtcaga attttatgac tgagcttgag tcacttgagt agccatttgt 420  
 cccatctgat ttgtcagact ctgaatg 447

<210> 662  
 <211> 393  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 662

agctntatca aatggatgtt aaaagggttt ttctaaatgg cttaatcat gaagaagtat 60  
 atgttgaaca acctccataa ttgaaataa cagataagcc aatcatgtt tatagattga 120  
 aaaagacttt atatggtttg aaacaagccc caagggcattg gtatgaacgt ctaagtaaat 180  
 ttctttttaga aaaagatttt tctagaggaa aagtggatag cacactattc ataaagagaa 240  
 agtatgatga tattatgtta gttcaaatat atgttgatga tataatattt ggatccacta 300  
 acgattcatt gtgcaaggag ttctctcttg atatgcaaag cgaacttgag atgtcaatga 360  
 tgggagaact aaattacttc ctgtgggttac aaa 393

<210> 663  
 <211> 395  
 <212> DNA  
 <213> Glycine max

<400> 663

agcttttaaaa tttgaattaa aacgttcata aactgctggt aatcgattac tatatatgtg 60  
taatcgatta cacagtgcac attttgaatt taaattttta tagctgttgt aaatcagttt 120  
tggccaccgg taatcgatta catcctctgg taatcgatta ccagagagta aatttgttga 180  
aaaagacttt tttaacttaa aattccttggc caaacctttt gcaatttcaa ttggaattcc 240  
cttctatatt aatatccttt ctaagactct atagactgtc ttgatcatcc atcttgaata 300  
tctttaattt ctttgtcttg aataaagctt tgagacgcat gtgaaacttt ggcacatca 360  
aaacattcag ctttatcctt tgtctacaaa ttggg 395

<210> 664  
<211> 446  
<212> DNA  
<213> Glycine max

<400> 664

ttctgcacat attcaaggac ctatgacctt atccatgcat atgggttctt tagcttgtag 60  
aagaatgtgt aagctgactt ctctctcatt tctttttata ttcccagatg aaatgtaggt 120  
tccatggcta gttgtacttt cctatgcact tggatataat aaacgaagtt cggtaaccat 180  
aaagataatt acaatttggg gagcctgcta aatgtttata agggaccgtg tagtggaaca 240  
tctttggaga caggtgtgcg agggaaacaa actacttgct gactcaaagc atcaatgcag 300  
atgtaatgcc gaagacattc tattggaaat ggaccgtatc ttacagcctg aaggagctgt 360  
gatattccga gatcaagcca acatgttaat gcatgtgaac agaactgtga aatgaatgag 420  
atggaatacc agaatggtgg atcatg 446

<210> 665  
<211> 450  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 665

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aataaactct tcttggtagg aatatgaact ctatcatgca aaattgcatg gtcactggca 120  
gccacatttt caattaagtc catggcttct ttaggtttct tcaacttaat ttttctctt 180

gcataaacgt cgagtaactg ctttgattgc ggccgtaacc catcaatgaa gatgttcagc 240  
 tgtataggct ctgaaaaacc atgagtggga gttttccgca gcaagctacg gaatctttct 300  
 aatgcctcac tcaaagattc atcaggaaac tgatggaatg aagatgcagg tctttaaact 360  
 gttgccttg aatgaatgca accatctctt ggccctccca gataaagaaa atgaaaatag 420  
 gctgagccta atagcatatc caggtacatc 450

<210> 666  
 <211> 385  
 <212> DNA  
 <213> Glycine max

<400> 666

agcttttgc gtttgaattt gctatgagct tctggtttct attacgagta actcgaaata 60  
 ctacggaacg cagtcaaaca tccgagtaaa aagttattgt catttggatt tgctcaaaga 120  
 ttctgttttc aatttgaagc gtctcgatat attacaggac tcaattggac atccgagtta 180  
 aatgttattg ccgttttaat ttgttacgag ctccatttt caattacgag cgtctcaata 240  
 tattacggga ctcaatcgga taccctagtt aaaagttatt gtcatttgaa ttgtctcaga 300  
 gcatctattt tgaatttcga gtgtctcgac atactacggg actcaatcat acatccgagt 360  
 aacaagttat tgtcggttgg atttg 385

<210> 667  
 <211> 386  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 667

agcttatggc ggcaaaggat aagctactct acctgaagca tgttgatgtt ggtgtttaag 60  
 aacactgtat ccttgaaaag caaaaaaagg tcagcttctc aagggcaggt aagactccta 120  
 aagttgaana gctagaattg gtgcacacaa atgtttgggg gccagcccca gtgaaatctg 180  
 ttggaaactc acgctattat gtcactttta tcaacgagtc taccagaaag gtatggggtt 240  
 attttcttaa aaataaatct gatgtgtttt ctgtgtttta aaggtggaaa atagaagttg 300  
 aaaatcaaac aggtctaaag gttaaaagtc tgaaatctga caatggtagg gagtatgata 360

gtcaggagtt taaagacttc tgttca

386

<210> 668  
<211> 362  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 668

agctntgtga gcttcaaaag ctcagcatgt tcactaccct gaagaacatt gcaagttgag 60  
ttctgcaagg taagaacagg gattgcaaag attgagtgtg cagttcttcc ctcagacaac 120  
aataaggatg ttatgccact tgatgcaact gttaaaataa tatgtccctt tgaacgaaat 180  
gcagaggcta gtgtcttccg catgaaagtt tttcaatccc cctataacca taaaggaaga 240  
aaatgccacc atattgcata ttaacatcat tcattactat atcaaagata ctttnttgct 300  
catctgcacc aaggaaagtt gaaaatattc ttaattactt aagatatata aataattgaa 360  
tt 362

<210> 669  
<211> 459  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 669

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tgtcttagcg tagttgatcc cttctacttg atgattatcg agtataacta accgggcttt 120  
aaaaggttca attgtcccat ccaagtgata cttcatgcgg tacaccatt tgcacctgag 180  
agctttcttt tcgggtggta gttgttgcat ggtccacgta cgatttcatt caagagcttg 240  
aatctcagat tgcattgctt ctttcttggtg agcatctttc actacctcat gaaaatagag 300  
tggttctttt tctgcaataa taattgcaag gaaatgtcta tgtggcaaag aaaatttttc 360  
acaatttaca taatgcgaga taggatagga tgcacctgan aaaatgagat taagccgatg 420  
aacgagtgat aggagataac ttcttaatca tgtgtatga 459

<210> 670  
<211> 457  
<212> DNA



<213> Glycine max

<223> unsure at all n locations

<400> 670

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tattatgtac acatatatga taagttatga atgtattgaa acgttattta ttaatttaat 120  
tctcctcaag gaccgagatt atgtattttc ctatgcacat ttaacagaat atttgcaagt 180  
attgattata cattgagact ctatgtagaa aaagatataa acacaatttt tataaaataa 240  
aatttcataa aattcaactt tataagattt attcttagtt cctacaatgc atatatgcgt 300  
gtttcagtgc tttttaactt tccttatatt tgcttcaaaa atatggtaga ttttagagat 360  
atatgaactt agtccaccaa ttaaattata acttgtagt gtccttattt ctcanatatt 420  
atagtaatgc aacattctca aatactcaca tccttct 457

<210> 671

<211> 405

<212> DNA

<213> Glycine max

<400> 671

agcttccatc acctcggttt tctttaactt cgtgggacac ccttttcagc acaagggtccc 60  
cctcattcaa ctgtgtgggg cgacacttct tggtgaacgc gttctttatc cttgttgat 120  
acaggcgct atggctcatg ggcgtcaaac gcttaccttc aataagggtg agttggtcgt 180  
agcgtgtttg agcccactct gattcttcta ggcccgattc tgctagtatc ctctgggaag 240  
ggacctctac cttaaacggg agcactgctt ccatcccata aaccaaggag tacagtgttg 300  
ccccagtaga atttcgtacc aagggttcggt acccatgcag ggcaaaaggc aacatttcat 360  
gccaatcttt gtacgacact gtcataccct aatttcgtcc aagga 405

<210> 672

<211> 451

<212> DNA

<213> Glycine max

<400> 672

tgcttgagaa gtttctatgg aggttggatc tttgagcttc aataagggtg cagtggaaaa 60  
taaaggagaa gagatgagag gaggcacat ccactagaga ataagccatg aaaggagaag 120

cttcaccacc aagagagtgc cttggataag aatcttagag agcgccatcc actaaatgtg 180  
 cttaggtgtc atgaggcatg taaagcatga aggacatgca caaagtgtga ctatatgatg 240  
 tggcaatggg gtgtagcaag caaatgtcga cctccccctc taaaatttaa ttggattgag 300  
 cttttcccaa ttcaattaaa tttatttccc aacacacata tcaaatttc acttaattcc 360  
 tatgaaatta cagaactacc cctaatacaa aaactagtct aggtgcccta aaatacaagg 420  
 gctgaaaaat cctacatttc tagggtaccc t 451

<210> 673  
 <211> 272  
 <212> DNA  
 <213> Glycine max

<400> 673  
 cccgacgaag acactgacaa aaacttatct tctccttttt ggacaaagta tgacaagcag 60  
 ggggcaagta aattttcttc ccatcagacc ttggatgcaa gtgtgatcgt atccccatct 120  
 catctagatc ttgacgggta ttcaagtcac ccttcacatt gccttgaatg ttaaggagca 180  
 tcccaatcac attgtcacat acatttttct ccacatgcat aacatcaata caatgtctaa 240  
 cgtctagatt agaccagtcc gaaagatcaa ag 272

<210> 674  
 <211> 395  
 <212> DNA  
 <213> Glycine max

<400> 674  
 agcttttctt cccagtcttg tcaatgatgt aaatgcttca gaattgaacc aaatgcattg 60  
 aggccagctg tgatgagtga caaaaacaat gctgtcctgt tagatgcaaa accagccaac 120  
 tgaacaatgg tgggactata atacatcaca gtgttgattc ccacaaactg ctggaagatt 180  
 aagaggccca caccagcata taaacctctt ctcacagctg aagttcttaa aagtttgact 240  
 atgttgatct tctctgatga ttctgcttcc ttaatttcca tgtcaactga ttctttcaag 300  
 gctgaattt cgccttcaac ttcattgtgt ggataaatct ttttcagaat cgattttgct 360  
 tctcttctct taccctgtgg gaacaaaaat ggaac 395

<210> 675  
 <211> 408  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 675

agctttgatg gagaacaacc ttaggatgta gaggggtacac gcatggagaa gaagaaagcg 60  
 cgagcaaaat aggtggcgtc taatataatt taaattgtaa gttcaacatc aattttcaat 120  
 aaaaaaaacc aatgttaaca aattcatgtt aacgttaaca tcggttttat tcaataaacc 180  
 gatgttaact gatcatcgt taacatcggg tttcagaaaa ctgatgttaa cgaactaagg 240  
 ctaacatcgg ttttctgaaa acccgatgtt aactaattaa tgtaaacatc ggtttttcca 300  
 gaaccgatgt taaagtcact ttgttaacat cgattntatt caaacccgat gttaaagtat 360  
 acacaatatt cacaattatg ccacgacgtt tatcttaaca ttgggtttt 408

<210> 676  
 <211> 435  
 <212> DNA  
 <213> Glycine max

<400> 676

tagtgaacca tgaagcttga tcgagttcat ctaatacttc atcaatcgtg gggattggaa 60  
 atcgatcgcg gactgtaaca acattaagag acctgtaatc gacacatatg cgccatgttc 120  
 catccttttt cttcacgaga agaactggag acgaatatgg gctcgtgctt gatcttatta 180  
 agcctgcaga taagagttct gcgatttgcc tctcaatctc ggccttttga aagtgtgggt 240  
 acctataage gcgtacgttg accggagctg ttgcagggag aagggtgata cgatggttta 300  
 cttcgcgtga gggaggcaag cttctgggtg gttggaaaag tttatcgtat cggagaagaa 360  
 ggtttgcatg tggtgtgata atacgtggag gatgtgtggc tgtacctgtg ggggtttcag 420  
 ataagagaca taagt 435

<210> 677  
 <211> 358  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 677

agcttattaa tgtatgatta aataacattt aagacaattt gatcagttaa ttcataattt 60  
aatattttta taactgttaa tttgtttatt aatttcaaaa attattttta caaataaatt 120  
aattcaaaca ttttgtatat tttaatgagg aaagtatatg attcgatatt atcatttttag 180  
tgatgtattc aagtttcttt gaaatatatg attagataac attattttat cacgtattca 240  
cataatttaa ataaaaagtt acaataacgt gaggaatagt gaaattttgt tacgcaagat 300  
aatgaaattt gatataattt tattaaattg atatagaatg aaatataana atttaaaa 358

<210> 678  
<211> 434  
<212> DNA  
<213> Glycine max

<400> 678

tatatattga tatatactta atattatttg taaaatatta ataatttaga aaataaaagt 60  
ctatttcaat tgaatgatta ataataaaaa atcaatattg attcgaatta taataatact 120  
aacatttttt ttattagtag gaagtgaatt tatgtactag aaagttcaat aactcacgcg 180  
cattattcaa taaagttaga ccgacttggg attataatac taacatgaac acttatttca 240  
tctgcataac ttatcttaat aatttgggtca ttttaattttt atttttttta gtacaaaggt 300  
ctaaaatagt caatagtttg atgtatatat attattattg gacatagaat atcaaaattg 360  
taaataatgt taaaactaat ttatatttga tatattaact aatttcacaa tagtttgaat 420  
tattttttta tatg 434

<210> 679  
<211> 182  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 679

tgaactcctg caatgttgng ctattccaag ttcatttacc atacctttat tttcgattgc 60  
ttccttcact ccttcagcta ggcccatgta tcttacttca aatgttgaca aaacatcaac 120  
tgattgttga tttgctttcc aactgattgt tgtaccaaac aaagtgaaca catattctgt 180  
ta 182

<210> 680  
 <211> 506  
 <212> DNA  
 <213> Glycine max

<400> 680

ttgaagatct atacagtgt atagaggggg cctttgatca ctcattctga ttttgcttat 60  
 gattaatddd acttgcaaaa gcttatatgg aacaagctga gatgactaaa gcggtcctgg 120  
 atttgttctg ggggaaaaat gaatgtggag aaaaccaaga tattcttctc agaaaacatc 180  
 aactggcata taaaggagga tcttactgca aagattgggt ctcaatgtac tttggggaaa 240  
 tatcttggag tgccgatatt ccataaaaag gtgaagaaag aatcctttga gttccttcta 300  
 cataaagtta atcacatatt aagtgggttg aaaagtaaaa tgttatccat ggcgggtaga 360  
 ttaaactctg caaagtatgt gaacaaagct cttccctcat atgtgatgca aattgtgaaa 420  
 attccggcct acatttgtgg tgaaatttat agaaatgtag agcattttta tttgggggat 480  
 gatgagaata cgacgagagt gcatat 506

<210> 681  
 <211> 169  
 <212> DNA  
 <213> Glycine max

<400> 681

gcagcttaaa tagaccactt tcaggtgctg gaactacttc acatggactt gatggggcct 60  
 atgcaagttg aaagccttgg aggaaagagg tatgcctatg ttgttgggga tgatttctcc 120  
 agatttacct ggttcaactt tatcagagag aaatcagaca cctttgaag 169

<210> 682  
 <211> 620  
 <212> DNA  
 <213> Glycine max

<400> 682

tatcccatgc ctccttagcg tatgtttcat aagaaactat ctttaactct tcatcaccta 60  
 atgcttgata gatgaggaag aaagctttct tgtctctctt tcttgaatcc tttaaagtct 120  
 ccttttgtgc ttgggatagt gaagtctcat cttgcggctc cttataacct ttttcaacca 180

tttttcaaac atcatgtgct ccaagaagga ccttcatttc gatgctctaa ttgtcatatg 240  
 cgctccccct tagaaatgaa acttggaagg atgcgcgtca attgcttgcc ataactatag 300  
 aggaatttct tatcaaaacc taagctctaa taccactttg ttggaaagga gataggaagt 360  
 atttgagaga aatggaggag gagagaatat ttgaaaaaag gctagttttt atcacttgag 420  
 atacgctttg ggcttgactc ctttttgtgt ctttgatgc ttacaaata acaacctctc 480  
 cccctattat aggcctcaat gagggattct aaatacctca agaaagatcc acacacctta 540  
 attgagagtt tacacatttt ttccaactac ttagttctac acacctcttt ccatgcaaat 600  
 atttttttca cttattttcta 620

<210> 683  
 <211> 392  
 <212> DNA  
 <213> Glycine max

<400> 683

tgaaattgaa caacagaagc tcttgagaaa ctcaaagtgt catatacttg tcacacggaa 60  
 gtccgatgca ggcgcataat atattgagat gctcgaaatt gaacaacgaa tgctctcccg 120  
 aaattcaaat ggccataact tgtcacacag aagtccgatt caagtgcata atatatcgag 180  
 acactcgaaa ttggacaacc aaagctcttg ataaattcaa atgggtcataa cttttcaaac 240  
 ggaagtctga ttcagccaca taatatatcg agaagcttga aattgaacaa cggaagctct 300  
 cgggaaacaa aaatgggtcat aacttatcac acggacgttc gatttaggcg cataaaatat 360  
 ggagacgctt gaaattgaac agcgaatgct ct 392

<210> 684  
 <211> 176  
 <212> DNA  
 <213> Glycine max

<400> 684

agcttaagag cctacttttg tggcaaaaca atatagttgg aacaatccca taagagcttg 60  
 gaagctgcat agagatcaaa gtcctagact tatcagaaaa ctttctcaca agtagcatat 120  
 caaggagctt tggcaacatt tcaaatatcc aggagcttca actaagtgtc aataag 176

<210> 685

<211> 554  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 685

ttataaattc ttgctcactt gatacactcc atggatgaac agtttggact ttgcccgaat 60  
 aaagagtggg ggaatttgca ggaggatttt gctttagat cattgtatca agaacgggtg 120  
 caaaattctg aggagaatct agggagacaa agaacatagg aattgcaacc ttctgatgga 180  
 tttctaggtc gccacaagg ttaacaagct caacaaaatc actgataagg cgctgaggaa 240  
 catagaacac ctgagaactg catattagga ggtttttatc gttgtcgctt ggttctttgt 300  
 aactgacttg aaagtgcgct ggcacgtgac taacaacctt ctgtaccatt cttgcttggt 360  
 gtgataacca atctgagtcc tcaccatttg ttaatataga agaccaagac tcggatacct 420  
 gaattcccag taatgtgtaa attgtcagag aaaagagcta tacgaccttc taagagctat 480  
 atgacctttt aagagttaaa gctatgctgt anaatatttt cagtgcatt gtctgaatg 540  
 attgaatatg atct 554

<210> 686  
 <211> 609  
 <212> DNA  
 <213> Glycine max

<400> 686

tgaaggacat gcacaaagtg tgactatatg atgtggcaat ggtgtgtatt aagcaaagtc 60  
 tcacctcccc tctaaaattt aattggattg ggcttctacc aattcaatta aatttatctc 120  
 ccaccataca catcaaatat tcacttagtg cgtgtgaaat tacaaaacta cccctaatac 180  
 aaaaactagt cttggtgccc taaaatacaa ggactgaaaa atcccatatt tctagggtac 240  
 cctacctaca ttatggagcc ctaaatacaa ggaccaaagt taatgaaacc ttaatctaata 300  
 atgtacaaag ataagtgggc tcatacttag cccttgggac cgaaatctat cctaaggctc 360  
 atgagaaccc tagggccttc tcttgcattt ttggcccaat cttcttgga tcttctatcc 420  
 aatgccttg cggggtagga ttgcactcact aatgtacca accctagggt attttatgaa 480  
 taagagccta agagaaacct acctttagcc caaactagaa aaactattat tgcatgcctt 540  
 ccgaaattca tgcataagct aacatggtaa acacacgaaa aaatcgagtc aacgagagac 600

acaactttg

609

<210> 687  
<211> 179  
<212> DNA  
<213> Glycine max

<400> 687

gcatgcaagc tttggaggca ttacctttat ggaactaaat ttaagggggt taatgaccat 60  
aagagcctta gatatatgtt tgatcaaaga gagcttaaca tgaggcagag gagatgggta 120  
gaggtcctta aggattacga attttagctt aactatcacc caggtaaagc caatgtagt 179

<210> 688  
<211> 362  
<212> DNA  
<213> Glycine max

<400> 688

tgagcaaatt caaacgacaa taacttttga ctcgaaatgtc ctattgtgtt ccgtaggata 60  
tcgagacact agtaattgaa aacggaagct ctgagaaaaa tcaaatgaca ataacattta 120  
actcggatgt ccgattgagc cctgtaatat atcgagacgc tcgaaattta aaacggaagc 180  
tctaagaaaa gtcaaacgac aataactttt aactcggatg tccgattgag tcccgtgaaga 240  
tatcgagacg ctcgtaattg aaaacggaag ctctgagaaa aatcaaacga caataacttt 300  
taactcgaat gtccgattga gccttgtaat atatctagac gctcgtaatt taaaacggaa 360  
gc 362

<210> 689  
<211> 533  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 689

attagtgtac catacaactg cagctccagc caagctatct tgtaaaaaag tgtatgaaca 60  
actttgcac cctagagtgt gccccatct tgcgacaata catcttgaga tggttcttag 120  
gacaagtcgt ccctttatac ttgtcaaaat caagcacttt gaattttggg gggatgacaa 180



catccggtac caagcaaaga tctgtcatgt ccacgaatgg atagtcacca aatccttcaa 240  
cagctctcaa tctctctctcg aggagatcga gtttccttct ttcttcggcc gccgggggtg 300  
gtccttctat ggacaagaat attggttggt ctgtgaggtt gggctgaggc aacgtgttgg 360  
gcaccggccc ctgcacgagg atcggagggt agaaatcgac atccncttgg gcatactctc 420  
gatgatcttc atggaccgcg tttaggggag gatggtgcgc ggtagctagg atagatgggt 480  
ctgcttcggc accccaacta acagcggcag cggtgggcgt gttattctcc atg 533

<210> 690  
<211> 439  
<212> DNA  
<213> Glycine max

<400> 690

tggcaagttt gtattgtaca aatgggccca gagtgccctt tttattatgt actcataaac 60  
cagtatatcc tcgaaccttt tattgcaagg tgctgtgac gaatcttata caaaatcatg 120  
atctctctct gaaattctgg aaggccttga cctgacctgt taagaattat tgattaaatt 180  
tattatttat tatattataa ccaggtaaga actaagatca ttattaatat atatatatat 240  
atatatatat agatatattg atatcttaaa gattggacga accataactc ccatatatga 300  
aatgataaga ggttggtgag ataaatggag attttaagat gtgtattaaa acattgtact 360  
aaaaaagaat aaccgaataa cagagtactc ggggacttta agattatttc tcatgcgaat 420  
tttttttatt tctctttta 439

<210> 691  
<211> 627  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 691

tgcattcgat agtggagctc atccaatgga gttattaatg ctaagaaaat tcagggtttta 60  
aagaaggagc tgaatgcttt ggaggctggt atctctgaca gaattctgaa tcaatttgaa 120  
gtggagctca agaagtctct tcaggagcaa ttgtggcatg ctgctaattgc ctatgaatgt 180  
atgctgaagc aaaaggctat agtgaaatgg ttaaaggaag gggacagaaa ttcagcttac 240  
ttccacaagc tgataaatca tagaagaaga cataatgcta ttcaaggatt gatcattgat 300

ggggaatggg ttcaggaccc tagtagagtc aaaactgagg ccttcaatca tttcaaagat 360  
 agattttctg agcagaattt taatagacca accctggatg gtgtgcagct accttccctt 420  
 ggtcaaagtg agaatgaagc ccttgtggcc agattttctg atgctgatac agtttggtta 480  
 ccaaaagcca tcaagaatga taacaaagca gtaatttaaa ttaaattcat cttagctntt 540  
 ctattttatg atcactctcg attgctggaa tggatgaagga aatgggcttc tttatacgag 600  
 gacctatac agctgcaatg tgacatc 627

<210> 692  
 <211> 175  
 <212> DNA  
 <213> Glycine max

<400> 692

ggcattgcaag cttctttctca acaggatgat aaaacctata tttctattca ttctcaccat 60  
 agccaatgaa gatacactgc cttgactttg catccaactt ggatctctta tcctttggaa 120  
 catgcacaaa agccttgcag tcaaaaactc ttaagtgact atacttcaca ttctt 175

<210> 693  
 <211> 632  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 693

agcttcaagt tgctcggata gcaacttgtt ttggggccaac aaagtgttct atgatgaaag 60  
 cttcaacagg cttcttttgg ttgggatgtg tgctctatca cacaagattg aatgggtcact 120  
 agcaaccata ttgtcaatca attccatggc ttcttcaggg gccttcaatt ttatttttcc 180  
 cctgcagaag catctaaaag ctgcttggat tgtggcctta acccgtcaat gaaaatattg 240  
 agcaggattg gttctaaaaa tccatgagta ggcgtctttc ttagtaacct acaaaatctt 300  
 tccaaagcct cactcaagga ctgctttgga aattgataaa aggatgagat ggcagctttt 360  
 ccttcagcag tcttggactc taggaagtat ttcttcaaga atttttcaac cacttcatcc 420  
 taagtcttaa gactgttacc tttaaatgaa tggagccatc tttttgtctc tccaaacata 480  
 gaaaatgaaa acaagctcaa tctaacagca tcctcaggca tgccaaccag tctaacagtg 540

gtgcaaactct caatataagt ggctaaatat gcatatgggt cttcatttgg cagaccatga 600  
aacaanatgt tctgaatcaa ctgaattaat ga 632

<210> 694  
<211> 385  
<212> DNA  
<213> Glycine max

<400> 694

taaacattca atttcgagag tctcgttata ttacgggact cattcagaca tccgagtaaa 60  
aagttattgg cgtatgaatt ggcttaaagc ataaacattc aactttgagc ctctcgggtat 120  
attacgggac tcaatcagac atccgagtaa aaagttattg tcgtttgaat ttgctcagag 180  
gttcaacatt caatttcgag cgtctcgata tattacggga ctcaatcaga catccgagta 240  
aaaagttatt gtcttttgag ttggctcaga ggctcaacat tcaagttcga gcggccccgat 300  
atattacgtt aatgaagcgg acatcacgct aaaaagttat tgccgattga attcgctccc 360  
aagatcaaca ttacattttc gagcg 385

<210> 695  
<211> 651  
<212> DNA  
<213> Glycine max

<400> 695

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tagaattctt attagctaatt acgtcaaaaa tatagttact tgtattaaga tcaccacact 120  
gggcatacat ttgaattagg gagctttgga caaatgtttc taattcaaag cctgctacaa 180  
ctatatgtgc atggatgggc attccatgat ccaaagggtc atcaggagac aaaaaagcac 240  
tgagaagatt aacaatagta atgtagttta caggcacacc ttcttctctc aacaaattga 300  
aggcttcaat cgtcgcatta gggtctttgt tatcagcatg tccacctatt agtgcattcc 360  
aagtcacttc atctctgtca ggcataattt tgcacacctt ttgtgcagca gccatggaac 420  
caaatttccc atacatggta accaatgcat tacctatgat caaattgtga tggagaccaa 480  
gaagaatcac aaaggcatga acaatcttta atgtttctaa atatacatgc agataatgca 540  
gtagtgaagg tacatagttt gtcggctttc ttgtttgaag catctcaatc aaaagttcta 600

agcacgtgga taatttccat tgtcacattg cttgccatat ggaattcatg a

651

<210> 696  
<211> 330  
<212> DNA  
<213> Glycine max

<400> 696

gcctaagatc ctcttcatca atggattcct tatctttttt gaagatgaat ggcagcggta 60  
tggagaatga atatagagaa gatactccac ttctatgaga aaatgaattt agaaaaagct 120  
taccaccata ggaggtcttg gataagagcc tgtaggaaga acatgactga acggagaggg 180  
agagaatagc acgaaatttt gtgctctaaa agagctctaa aatctgaagt cttattttca 240  
aatgatcaaa gttggaaaaa atgaacacac cttaccttta tttattagcc tgactgtttc 300  
acacaactgg agggaaattt taattttaat 330

<210> 697  
<211> 490  
<212> DNA  
<213> Glycine max

<400> 697

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caccatatga aagttttagt gtagcacttc ctccccatgc acatggacat ttcattgcagc 120  
tgatttgctg gccttggttt cattgcattg gaatcataaa ccaaggctgc aagaaggcca 180  
tagagacatg aacctaaagg aatgttagtg atgaggatat tgtggttcac accaactg 240  
tttgggccaa atagctctga ggtaatagac actgctgcag aaaacacaaa gcttgaactc 300  
agccctatca aggcagtgcc tatgtgtaat gcagctccac tgccagatat ggccagcaaa 360  
atgaatgcaa ttggtgttag caccaagcct gtcctaaacc atccagctct tgcaatgtgt 420  
atcttctctgc attgtcatc aacattagat gaatttacgt gcaatgttgg tttcgtgaca 480  
tgtctctcca 490

<210> 698  
<211> 412  
<212> DNA  
<213> Glycine max

tgcttaagat tatatattga ttctctaat ttgcacacta tgtgtttctt tccttcaact	60
aagaatccca ttgggtgggc catataaaca ttctcctcta attctccatt aagaaaggca	120
ttttttgcat tcctctgatg tagctccaag tcataatggg ctactaatgc tatgataatc	180
ctgaaagaat cctttattga gaccgatgaa aacgtctctt tataatcaat gccatctttc	240
ttagtaaadc ccttagcaac aagtctagcc ttgtaacatt taagggttgtc atgagagtca	300
catttagtct tgaagaccca cttacaaatc ttacaacttt ggtnattcta ccagggtgcc	360
aacaccatta tgttcccatg gaattatctc ttctttcatg ggatttaact ac	412

<400> 699

gcataatatt	ataataatca	cttccaaaaa	ttgacaaaaca	taattttaaaa	gaaatataat	60
aataaccata	atattaatta	acaatcataa	tttgtttattc	acaatagaaa	ttatccaaaa	120
taaacattct	atcaattttac	ctaagtaaac	attgtatcag	tgtaccaatc	attacaaatt	180
tatccaaatt	ataataatta	gtcataatct	actataaata	aaagataaac	atatatcata	240
taccaagagt	gtccgaccgc	caaaattcga	agaagtgaaa	tatgagttaa	catattttta	300
tataatattt	agcatattgt	tattataaat	aattaaaaaa	aaactaaata	tcattgtcaac	360
aaaat						365

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<223>      unsure at all n locations
<400>      700
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297

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 tgaaagcttc ttcttgtttc tctccccatt tgaaaccaac attnttcttg agcacttcat 360  
 tgagaggtgc tgtcaaatgt gctaaaatcc ttcacanatc gtctataaaa acttgctaag 420  
 ccatgaatac tcttcacctc ggtcacagac ttaagtgtag gccattcttg 470

<210> 701  
 <211> 458  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 701

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 gaagtccgat tcaggcgcat aatataccga gacgctcgaa attgaacaac ggaagctctc 120  
 gagaaattca aatggtcata actgatcaca cgaaagtccg attccggcag atagtatacc 180  
 gagactcttg aaattgaaca acggaagctc tcgagaaatt ctaatgggca taacttttca 240  
 catggaactc cgattcaggc gcataatata tcgagacttt tgaaatataa caacggaagc 300  
 tctcgagaaa ttcaaatggt cataaaatctt caaacgaaag tccgattcag gtgcataata 360  
 tatcgagagg ctggaaattg aacaacggaa gctgtcgaga aattcaaattg gtcataactt 420  
 atcacaccga agtccgattc aggcacataa tatatcga 458

<210> 702  
 <211> 437  
 <212> DNA  
 <213> Glycine max

<400> 702

gaagctcttg agaaattcaa atggtcataa cttatcacac ggaagtccaa ttcattgcga 60  
 tagtatatgg agacgctcga aattgaacaa cgaaagctct cgagaaattc aaatggcat 120  
 aacttgtcac acgaaagtcc gattcaggcg cataatatat cgagaagctc gaaattgaac 180  
 aacggaagat cttgagaaat tcaaatggctc ataacttgct acacggaagt ccgattcagg 240  
 cgcataatat accgagacgc ttgaaattga acaacggaag ctctcgagaa attcaaattg 300  
 tcataactta tgacacggag gtcctattca agcgcataat atatcgagac gctcgaaatt 360

gaacaacgga agctctcgag aaattcacat ggtcataact tatcacacgg aagtcggatt 420  
caggcgcata ctatatc 437

<210> 703  
<211> 456  
<212> DNA  
<213> Glycine max

<400> 703  
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agacttccgt ttgaaaagt atgaccattt taatttctcg agagcttccg ttgttcaatt 180  
tcgagcgtct tggtatatta tgcgcttgaa tcggacttcc gtgtgataag ttacgaccat 240  
ttgaatttct cgagagcttt cgttgttcaa ttccgagctt ctcgatatac tatctgccgg 300  
aatcgaacct ccgtgtgata agttatgacc atttgaattt ctcgagagct ctccgtggtc 360  
aatttctgagc atctcgggtat attatgcgcc tgaatcagac ttccgtgtga caagttatga 420  
caattagaat ttctcgagag cttccgttgt tcaatt 456

<210> 704  
<211> 447  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 704

agctttccac attgaattca gcacctaatg tcatattaga tggaaattgt gtatcttaac 60  
ataagagatt tcagatggac tttaatccta atcccacagc cgaccttttc acgagatctc 120  
tacttaaccc tttgggttaa tgatcagcca aattatgctg agttctcaca aactccactg 180  
atatcacacc atgcatgatt aactcccgaa ccatgttgtg tctaacaccc aagtgtctag 240  
acttccatt atacacttga ctatatgcct tagccaaagt taatatgggg gaaccttatt 300  
cctttttag gaattcagtt caacaagtaa caggctgtca acatagctc accccanaat 360  
ccttactta naccogaata ggataacatg gaattcacca tttctttcaa ggttttattc 420  
ttcctttcag ctacaccatt ctggttt 447

<210> 705  
 <211> 409  
 <212> DNA  
 <213> Glycine max

<400> 705

ctcagcttaa cattcaattt cgaggggtctc gatagattac tggactcaat cagacatccg 60  
 agtaaaaagt tattgtcgtt tgaatttggt cagagcatca agattctatt tcgaacgtgt 120  
 cgatatatta tgggactcaa tcggacatcc gagaaaaacg ttattgtcgt ttgaatttgc 180  
 tcagagcttc ggctttcaat ttggagcgtg ttgatattt acgagactca atcagacata 240  
 ccagtaaaaa gttattgtcg tttgaattgg ctgagagcat caacattcaa tttcgagcgt 300  
 ctcgatatat tacgggactc aatcagacat tcgagtaaaa aattattgtc gtttgaattg 360  
 ctcagagctt caacattcaa tttcgagggt ctcgatagat tactggact 409

<210> 706  
 <211> 435  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 706

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 atatatcgag acgctctaaa ttgaatgttg aagctctgac caaattcaaa cgacgataaa 120  
 tttttactcg gatgtctgat tgagtcctgt aatatatcga gacgctcgaa attaaatgtt 180  
 gaagctctaa gcaaattcaa acgacaataa ctttttaact ggatgtgtga ttaagtcccg 240  
 taatacatcg agacgctcga aattgaatgt tgaagctctc agcatattca aacgacaata 300  
 actctttact cggatgtctg attagagtcc gtaatacatc gagactctcg aaattgaatg 360  
 ttgaagctct gaccaaattc aaacgacgat aactttttac tcggatgtct gaatgaagtc 420  
 cgtaatacat cgaga 435

<210> 707  
 <211> 478  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations



<400> 707

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tcagatatct taagaagggg ggttgaatta agatattcca aactgtttcc cctaattaaa 120  
aatctatttc actttttact caagttatga attcccttaa tgacaatctt cttaaattatt 180  
aattcaaagt aaacaatttg aatatgaata taaagcaata ataaataaag gagattaagg 240  
gaagagaaaa tgcaaactca gttttatact ggttcggcca cacccttggtg cctacgtcca 300  
gtccccaagc aaccgcgttg agagttccac tatcttgtaa attcctttta caagttctaa 360  
acacacaagg acaatccttc ctttgtgtnt agaattcctt tacaacaaga gactcacaat 420  
ctcttaatcc cttagagaat gagaagaaga agaagaacaa atctctctag aaagagal 478

<210> 708

<211> 453

<212> DNA

<213> Glycine max

<400> 708

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gatattccaa actacttccc caattaaaaa tatatttcac tttttattca agttataaat 120  
tcccttaaca atgaacttct taaatattga ttcagataaa acaatctgaa tatgaatata 180  
aagcaataat aaacaaagga gattaaggga agagaaagtg caaactcaga ttataactgg 240  
ttcggccaca cccttggtgcc tacgtccagt cccaagcaa cccgcttgcg agatccacta 300  
tcgttgaaat ttcttgtaac agatctaaac acacaaagac aatccttcct ttgtgttaga 360  
attcctttac aaaagaaccc acggctctta atcctagaga atatgagaag aacagaatga 420  
attatcctaa agagataaat tacagatgac act 453

<210> 709

<211> 457

<212> DNA

<213> Glycine max

<400> 709

tacttctacc ttactcgatt atggattcca acagttcaag gctgattatt ctcttttcac 60  
taaaagggtct cctactggcc ttaccattgt ccttgtttat gttgaagatt tgggtgcttac 120

tgacactgat cttgctgaaa tctagcaact aaagcactcc ctggatgcaa aattcagtat 180  
 taaggacctt ggaataactca aatacttccct tggttatgaa gtagcccgat ccacctcagg 240  
 tattgccttg catcaaagaa aatattgcct tgatcttctt ctagacacta atctgcttgc 300  
 tgcaaaacct tctttcttac ctatggatcc taaactaaaa tttcacaat cttctggtat 360  
 tcctttcttt gatcctactg tttacaagag gcttatggcg cgattattat atcttactca 420  
 cacaaagccc gatattagct atgctgttgg aaaattg 457

<210> 710  
 <211> 447  
 <212> DNA  
 <213> Glycine max

<400> 710  
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 gcagcctgga cccaagaatt tgcgcacttt tgtctatctg atttaagttt tagttcctct 120  
 tctggtatgc ttctttcatt atctggagaa gaatcatctg gaatggattt agatagcgag 180  
 tcaacaatca tccgcgcact atttatgcta gcatgaagag ttaggaactg ctctactgca 240  
 ggctgtgggt tttgttctt atcagaatta cttagctctg catatacact gccaaaaaca 300  
 tcacaaaata agagtcagaa acaatctgtt atgctgtatt gcaggagggt gacacaatat 360  
 aatgcctacc atcccataga agaattgtgg aagacgtgga tgattaacat aatatatgcg 420  
 taaaccccag tctgtctgta tgattga 447

<210> 711  
 <211> 461  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 711

tgagggcact gattcttana aataactgaa taatgtagtg gtgttcactt gtcagctgaa 60  
 gcaaagggtc cagtgaaca atactcaagt tgggtccaatg ccaaactgac actcttgcaa 120  
 gcaatgacac ttccatctga ccctttgaca gcaaaatttg gaggacaaac tatgttcaca 180  
 tcactagggc agctagttgt gttgcaaccc cttaagcctc cctgagcgat caccaacact 240  
 ggcagattga agccatcaac aaggctaaca tcatagaaat cttgtccttt atttgaagcc 300

aaagtgaatt ccactagaga aactggaggg gttccaccat taccattgca tgggtacttga 360  
 cctgatccac agtcaccagt ggcacaagtg aatttcccat atgtgtctgt tgagcattga 420  
 gacttggccc agaattctgcc agaccatgga gctgtgacat c 461

<210> 712  
 <211> 426  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 712

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 tagttgaaaa aatactggtg actgtccctg aaagatttga ggctactatt acagccttgg 120  
 agaatactaa ggatctgtca aaacttacct tggcagaact tgtaaagtct ttgcaatccc 180  
 aagagcaaag aagaagaatg agggctgatg attctgtgga aggagtattg caagctaaat 240  
 tgcaaattaa ccaaggagag aaaagcaagt ggaagaaata caacaagaag aatttcaata 300  
 cacaagaagc agcgggtaac actagcaaca aaagtggaga caacaacaaa ggatttcctc 360  
 cttgcaagca ctgtggcaga atgggtcatc ctcctttcaa atgttggaga agacccgatg 420  
 ttaagt 426

<210> 713  
 <211> 317  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 713

ttgaagaata tgcttgctgc ctattacaca gttacctaag aaccattatg acgcagataa 60  
 tatgttatgc cctgtgggta tggaatacca caaaatacat gcttgcccta atgattggct 120  
 tttgcataaa catcaatttg ctgaantgcg cagctgcgct acatgtggag cgtcacgttt 180  
 caaagtgaag tatgatgaaa gcagtgtaga tggaggcaca tacgaagact tggcatgaca 240  
 agagtgggtg ggtcttccag taataccaac gtttaagcga ttgtttgcta atgcacatga 300  
 agcataattc ctcacat 317

<210> 714  
 <211> 380  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 714

tgttagctcg atgacttgctc agaaacaata tcttgactag cgtcacatca gagaattaaa 60  
 cttggacatc ttttagaaat gcttgctgaa ttaagacagg cagaaatcca gcgtctccac 120  
 tagggacaaa aaccattct ttgcagcata taatccaaaa aagcccatga gactgagtca 180  
 taggcctttt caaaatccac cttgaaaacc atagctggcc ttatgcttct acaagcttcc 240  
 tcaatcacct cattaagaac tagtatgcca tgcaggatgt gtctgttttt gatgaaagtt 300  
 gtctgcctct catcaataag accagatata acttgtctca atctatttgc taataactta 360  
 gatataccn tgtacataca 380

<210> 715  
 <211> 394  
 <212> DNA  
 <213> Glycine max

<400> 715

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 gaaccattat gaggcggata agatattatg ccctgtgggt atggaatacc acaaaatata 120  
 tgcttgccct aatgattgta ttttgtatag acatcaattt gctgaaatgc gcagctgccc 180  
 tacatgtgga gcgtcacgtt acaaagtga g gatgatgaa agcagtgttg atggaggcac 240  
 atacaaagat tgtccatcaa aagtgtgttg gtattttcca gtgataccaa ggattaggcg 300  
 atttgttgct tatgcacaag acgcaaaaca cctaacatgg catgctaata ggaggattaa 360  
 agatggatcg ctgcgtcatcc agctgattct tctc 394

<210> 716  
 <211> 466  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 716

tcctgcaca tattagggaa gttgngagca agatgctggt catgtatata tacaagaaca 60

acttctatTT gatatcgaAA aagaacaag cacaagata cgtaatgttg aatcangaaa 120  
 agttatgtta aaagaacgac ttccgcataa aagggtactt cttatactcg atgatgtaaa 180  
 taaattgcat caattgaatg ttttgtgtgg aagtcgtgaa tggtttggtt cacggagtag 240  
 aataatcatc acaactagag atatgcatat acttagaggg agaagagttg acaaagtgtt 300  
 cagaatgaaa ggaatggatg aatatgaatc tattgagctt tttagttggc atgcatttaa 360  
 gcaagcaagt ccaagagaag atttattgaa ctttctagaa atgtagttgc ttattctgcg 420  
 ggattgcact agctcttgaa gtccttgggt cctatttggt tgatat 466

<210> 717  
 <211> 457  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 717

agcttggttag taactctatg gacttaaact agctagccgc aaatggtagt agaagttgaa 60  
 tttcttgctt ctccaacttg ggtttcaaca ttctatagtt gatcactcct tttttatcca 120  
 tcacacagtt gattccctta ctactcgtgt atgtagatga catagtcatt gttggaaatt 180  
 ctatggatat gataacttca ttcaagcaga atttagataa tcaatttggg cattcttaag 240  
 ttctttcttg gtgctgggtg tctcagtgcc aaacctgcaa gcaccccttc tgaacctacc 300  
 tttgagactt cgccaagatg tcgtcctat acctgacttt cacacgcca gatatatccc 360  
 atgttgacca acaacttagt caattttcag cctcccaac agtgagtcac tatcaataag 420  
 cccaacgcgt actttngta tttgaaaagg aatccca 457

<210> 718  
 <211> 486  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 718

tgtagaccan atgcttacca ctactaaagg agaagccttc aggttgtttc atataaacct 60  
 catcctctaa atcactatta agaaaggcta tnttcacatt catttgttgt aactcaaggt 120  
 caaatgagc aactaatgcc aagataatac gaagagaatc tttcttagat acaggagaaa 180

aagtctctat gtagtcgatt tcttcttttt gagtaaattcc cttagcattg agtcttgcc 240  
tatactcttc aatgttgcc aatgaatccg ttttgatctt aaagacattt acagccaatg 300  
gcctttgccc cattaagaaa ctctacaagg ctccaaactc cattactctg catgtaattc 360  
atctcactct tcttggcacc ataccataga tntgactctn tacaactatg gattgatcaa 420  
acgtctcatg atcattntca gctgcaatat tatagtcaaa ttttgcaaat atacaatata 480  
ataact 486

<210> 719  
<211> 465  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 719

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acggatatgg ctcccgatcg gaaccagctn tagagcatga ccaagcgaga acatgagtc 120  
attaaagaat atgccccaaag gtggagagac ctgcgagccc aagtcgttcc gcccatgact 180  
gagagtgaga tgatcacaat tatggtagat acgttgcccta cgttctacta tgaaaagctg 240  
atagggtaca tcccagctaa ctttgcggac ctcgctcttcg cccgagaaag gatcgagtc 300  
ggactaagaa aaggcaagtt tgaatatgcc tccaacgtta cccccaacaa caacagaaga 360  
gccccagtgg tgggcacgaa gaanaaggaa ggagatactc acgcggtcac caccgcccc 420  
acatggatga nagcgcccc naatatccaa aactcatacc agcac 465

<210> 720  
<211> 448  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 720

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gcaacatgac gaatccgaaa agaaagagcg cgctgtttac tacctaagta agaagttcac 180  
aacctgtgaa atgaactact ccttgctcga aagaacgtgt tgtgctttag tatgggcacc 240

ccatcgtcta aggcagtaca tgctgagcca tactacctgg ttgatatcca agatggaccc 300  
 ggtaagaac atctttgaaa agccagctct cacgggacga atcgcccagt ggcaagtcct 360  
 gctatccgag ttgatatag tctacgtcac ccanaaggcg ataaaaggaa gcgccttagc 420  
 agaattattg gctcaacagc ctcttaac 448

<210> 721  
 <211> 420  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 721

ggtctacgca gttaatgttn tattcatcgt tagataatta atttgttaac nnnnnncata 60  
 atattttgtg tgtaacctaa aacttcattc aaattatata aattctcaca agtggatcaa 120  
 cccagcaata tgacttgttt ttcaaattc tcactactag aaaaagcaga tttaacattg 180  
 gcgcattaac attgattttc tacaaaaccg atgttaacat aaatgcggtg acataattgt 240  
 aaataatgtg tatccgttaa catcagtttt gaagaagaaa accgatgtta acgtatgatc 300  
 agctaacatc ggtttgttga ataaaatcga tgtaacgtt cacatcaatt tgtaacatc 360  
 gggtttttat tgaaaaccga tgttgaactt acattntaaa ttatatntga cgcgacctat 420

<210> 722  
 <211> 449  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 722

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 caatcatcaa atataaatgt ggattaaata ttaatcgatg tcaataatat gtttagtagg 120  
 ttatgtaact taatgtgaaa attttcaaaa attttaataa ttgcagcatt agtccaattc 180  
 aacttaatgt gataaataca ttggtcttca aatttcacct caataaatta tatgacttat 240  
 gtagaaaaat ctagcaaatg aatctagcaa aatcaaatat ataaatagaa aattacatta 300  
 gacgatgtta attaattctc cttcatcatg atcattacga ttagcatgaa cgtgattagc 360  
 ttcttcttct ccgacaacat taggagtgat ttgtatggac agaggactaa catagggtgc 420

catgtatgaa tcatcatcctt ctacattaa

449

<210> 723  
<211> 350  
<212> DNA  
<213> Glycine max

<400> 723

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ctcttttgat cctgtcgaac actacacgca gactctgttt ctttccatta aaaaaccttc 120  
ttccttcttt tgtgcttatt aacaaagact ttgctgtgca agataaatga gaatgatcta 180  
ttcaagcatg actggaggag cagatcatga gttcaagtgc tgcagatata tcctagaaat 240  
ggatactagc attccttgtc ggactttctca ctgagattat agccactctc atcaatcctg 300  
cagatgagaa tattgctygg tataagcttc tggctgagct taaatacgtc 350

<210> 724  
<211> 419  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 724

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actgtacagg gaaagctgag aaacggttct ttggcagcta taaagggttt atcagctgaa 120  
tcaagacaag ggatccggga gttcttgaca gaaatcaagg tgatctctag tatagagcat 180  
gagaatctag tcaagttaca tggatgctgt gtggaagaca accacaggat tttggtatat 240  
ggctatcttg agaacaacag cctagcacia acacttattg gtaagtgaac tactgccatg 300  
tgatgtgagt atgctntggt agaaaaacta tcttgataat gaattaatcc tcatgagttt 360  
ataggttcag gccatagtag catccaatta agttggcctg taaggaggaa catttgcat 419

<210> 725  
<211> 434  
<212> DNA  
<213> Glycine max

<400> 725



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attatgcgct tgaatcggac ctccgagaga aaagctcaga ccatcatgag cgctcaagag 120  
cttccattaa tcaatttcga gggctctgat atgttatgtt cctaactcag agctccgagg 180  
caaaagttat gtccatatga atatgtcgag agctctcggt gtttaatttc gatcgtcttg 240  
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gagagcgctc gatcttcaat ttctagcgtc tctatatgtg atgcgcctga atcggacctc 360  
ctaagagaa gcaatgacca tctgaattta tcaagagctt ccgctgacaa attcgagcgc 420  
ctctatatga gatg 434

<210> 726  
<211> 448  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 726

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gcaacaaaat caaccacagc agaacaatta tgacctttcc agcaacagat acaaccctgg 120  
atggaggaat catcctaacc tcagatggtc cagccctcag caacaacaac atcagcctgg 180  
tccttccttc caaaatgctg ctggcccaag cagaccatac attcctccac caatccaaca 240  
acatcaacaa ccccgaaaac atccaacagt cgaggccctt ccacaacctt ccctcgaaga 300  
acttgtaggg caaatgacta tgcagaacat gcagtttcaa caagagacca gagcctccat 360  
tcagagctta accaatcaga tgggacaatt agctacccaa tngaataaac aacagtccca 420  
gaattctgac aagctgcctt ctcaagct 448

<210> 727  
<211> 448  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 727

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ttagggatca acttgaaact tatgtgcttc aagtgagaag aaatgcttct ttttccactt 120

gtgaagatgt tcaaagtttg gctatgaaga tgggtcaaac tgagaaacat ttggtatttc 180  
cattgggttta taaacttatt gagctagctt tgatattggc cgggtgctgac aacatccgtt 240  
gaaagagctt tttcagcaat gaagattatc aagtctaaat tgcgcaataa gatcaacgat 300  
gtgtgggttca atgacttgat ggtatgttac accgagcggg agatattcaa gtcacttgat 360  
gatattgata ttattcgaac atctaccgca cagaagtctc ggaaaggaca cttgcctcgt 420  
aattntatatt aaccgcctat tgtaagat 448

<210> 728  
<211> 475  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 728

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aggcaaatgc agctgatgat tgtgtatacc acaagtttag tgggagtaaa tactcattct 120  
taggggttata tgtcaatgat atactgctta ctagcaacga tataagcttc ttacttgaga 180  
ctaagaaatt tctgatgaaa gattctatga tgaaagatct tggggaaacc tcttttgtat 240  
tatgaattta gatactaaga gatcactctc aaggatcat aaggttgtca caagagagtt 300  
atatcgataa gggcctagat agattcggca tgaaagatag taaaccagga gataccccga 360  
tagctaaatg agacacnatt agtctcacac aatgtcccaa taatgacctt gaaagaatag 420  
agatgcaaaa gattccttat gcatcagcag tatgaagtct aatgtacgct caagt 475

<210> 729  
<211> 455  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 729

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gggaatggat attcatcatt cccagcttgt taaaagggtg ctgaaagggtg gctggctgta 180  
aagctttggg gaatatgtcc acaagttgca ttganggatg agaccggaag gagcttgacg 240

agacccgcag tgactttgtg ggggataata tgacaatcga tctcgatatg cttgggtgcgt 300  
 tcatggaaaa cgggatttgt tgctatctga attgcagatt gggtatcaca atataaagtg 360  
 gctggctgaa taaatgctac accaatgtct tggagaatat acgttaacca ttgcagctca 420  
 caggcagtag atgcgagagc tcgataactca gcttc 455

<210> 730  
 <211> 414  
 <212> DNA  
 <213> Glycine max

<400> 730

agcttaactt aaataccttc aattttaact tatgtgctta latgataagt ccaaaccagt 60  
 tctgaagaag ctattctaaa tggccccaaa ttgtattctt gagtctttaa tgctcgtgct 120  
 gaccaagctt ctgttcctgg cctgtttatt ttcttactg aaataatttg tgttctgtgc 180  
 tgacgagtgt gctgtaagaa actgactttg gcgatcttaa cctacctaact actctatttt 240  
 gaaaacagga aaaaccgagt ccatggatcc aaattcaaga attatggttc ctgaagatag 300  
 gcatggactc catgcaattg atattttgga cctgacttg gtatgcttgt tttaaagttt 360  
 gttgaagtgc aatgcagata tccaagcaag ttattcatga atcctatata attc 414

<210> 731  
 <211> 440  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 731

agcttaaaca aatccaaaag agaaagaagc tacataacat aactaattgt acctgtagga 60  
 attataagat tgttttgaga gtgaaagatc gtaacaacta aacttgatta aaaaaaaaaa 120  
 aaaaactaat tgtacctgta ttggagacat atccctttgc atataatcaa gaggggtcca 180  
 agaggcaagc ttttcacaag ttttagaacc canaatacag cctctaatag tgttccaata 240  
 gcgaggatcc tgaattctct tctcaacca tggtagtaa tcttgaagac gatactcctt 300  
 gtaaaccctt ccaggcactt ccacaccacc gcccttgcta gtcacaccaa aaccaaatat 360  
 tgtgaagccc atgagtgtctg ctatgaggaa caacatgacc accaagtaca accatagtgc 420  
 acatgccaca tgaaaacatg 440

<210> 732  
 <211> 439  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 732

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ctaagctcac ctcccttgaga tgagaagcta gaacttagct acacaccccc tataatagct 120
aagctcacc ctagacaaa aaacatgaaa atacaaaaaa aaattcctta ctacaaagac 180
tactcaaaat gccccgaaat acaaggctaa aaccctatac tactagaatg accaaaatac 240
aaggcccaaa cgaaggaaaa acctattcta atatttacia agataagcgg gcttataactt 300
agcccatggg ctcgaaatct accctaaggc tcatgagaac cctagggcct tcccttggat 360
ctctagccca atctacttgg agtattctac ccaatgcctt tgcgngtag gattgcatca 420
cagcagagtt tgaccttca 439

```

<210> 733  
 <211> 436  
 <212> DNA  
 <213> Glycine max

<400> 733

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agcttcctta agaagattcc aaaagaagtt agagcttagc tacacacacc tttctaattg 60
ctaagctcac caccttgaga tgagaagcta gagcttagct acacaccccc tataatagct 120
aagctcacc tcatgaccaa atacatgaaa atacaaaaaa gtccctacta caaagactac 180
tcaaaatgcc tcaaaataca aggctaaaaa cctatactac tagaatgacc aaaatacaag 240
gcccacacga aggaaaaaca tattctaata ttacaaaaga taagcgggct catacttagc 300
ccatgggctc gaaatctacc ctaaggctca tgagaacctt agggccttcc cttggatctc 360
tgcccacac tacttggagt cttctatcca atgcccttgt gggtaggat tgcacattc 420
cctccacctt ggaaag 436

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<210> 734  
 <211> 309  
 <212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 734

gtgcctgtat attgatgcgc cggaatcgga catacgatgg agaagttatg accatttgaa 60  
tttctcgaga gcttcctatg tttaatctgg agcgtctcga tatattatac cctgaatcg 120  
aacctcagct gtgaaagtta tgaccatttg aatttcttta gagcatccga tgttcattnt 180  
tgagcgtctc tatatgtgat gaagcttaat cggacgtacg tgcgaaaagt tatgaccatt 240  
tgaatttcta gagagcttac ggtgttgaat atcgagcgtc gcgacatatt atgcgcccga 300  
atcggacat 309

<210> 735

<211> 447

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 735

agctntcatg tcntaataaaa ttgttaattc tactgaaatt gattatttta aaaattatgt 60  
ttattatgat ttttgatcgg atgattataa aactttttct attgatgata tatagaaatt 120  
agattctatg ttataacatt taaaatataa aactacatta tgaaaaatgc aatggtaagt 180  
aaattaaata ctttttcttg agagattcat aactaataac gcgaagttga aatagacata 240  
acgttttaag ttgaaattct attaatctac aattagtatt gtttgattga gtagaaagaa 300  
aagtaaaaaa agattaataa aattaaatta aaatagaatg tacaaatata aattctgcat 360  
tattttactg gttattatct tttttattct ctttttcttc aaacgaaacc ttagtattct 420  
tataattgaa tgagtttttt atgtcca 447

<210> 736

<211> 171

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 736

tcaacatcag accacttcca ggggtgctgga actacttcac atgtgacttg atggngccta 60  
tgcaagttga aagccttgga ggaaaaaggt atgcctatgt tgggtgtggat gatttctcca 120

gatttacctg ggtcaacttt atcagagaga aatcagacac ctttgaagta t 171

<210> 737  
 <211> 419  
 <212> DNA  
 <213> Glycine max

<400> 737

agcttataat atattgatac gctcgaaatt aaacgtcgga aactctcgag aaattcaa 60  
 ggtcataact ttccacacgg atgtccgatt cgggcgcata atatgtcgag aggctcgaaa 120  
 ttgaacaacg gaagctcttg agaaattcaa atggtcataa cttttcacac ggatgtccga 180  
 ttcaggagca tcacatatag agacgctcga aatttaaagc ggcataattt ttccacacgga 240  
 tgategatcc aagcttataa tatattgata cactcgagat tatacatcgg aaactctcga 300  
 gaaattcaaa tgggcataac ttttcacacg gatgatcgat tcgagcgcac aatatgtcga 360  
 gaggtcgaa atcgaataac gtgagctctc gagaaattca aatggcgata catttatac 419

<210> 738  
 <211> 422  
 <212> DNA  
 <213> Glycine max

<400> 738

ttgagtggct taatggctgg agtagaagat tcaatatagt tgtagtttga attaattgct 60  
 ccaagagaag caatggaagt gagaggaagg ggagccaaag cgccaagaca accaatgatg 120  
 aaacggagca catcttccct agagagacaa cagtacctat cacggatagg agtgatggaa 180  
 gttgaggggc tccgattcat gttaagtggc agattgttgc tgctgttgcc aggagattca 240  
 ctattcttga gccacttgcc atagtagata actgagaatc gcttgctcat gcccttccat 300  
 ggctacgctc ttggaacaag cagacgcttc acaccttggt tcatcatggt cagcgcacat 360  
 atcaacctta atgagaggaa gtaaagtaag atattaaggg tggttttgtc aaattagaaa 420  
 aa 422

<210> 739  
 <211> 376  
 <212> DNA  
 <213> Glycine max

<400> 739

tgggtctaacc tttcacatgg aggtccaatt caggctcata atatatcgag atgctcgaaa 60  
ttgaacaatg gaagctcttg agcaattcaa atggtcataa ccttactctc ggaggttaaga 120  
ttcatgcaca taagttaacg agacgctcga aattgaacaa cggaagctct cgagatatct 180  
agatgatcat aacttttcac tcggaggtgc gattcaagcg catcatgaat agagacgctc 240  
gaaattgaac aacggaagct ctcgagagat tcacatggac ataacatatc acatcgaggt 300  
cagattcaag cacataatat atcgagacgc tcgtaattga acaacggatg ctgtcgagaa 360  
atctaacggc ataact 376

<210> 740

<211> 455

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 740

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tattatgcgc cttaatcgga cctccgagtg aaaagttatg accatttgaa taactcaaga 120  
gcttccattg ttcaatttcg agcgtctcga tatcttatgt gcctgaatct gacctcgtg 180  
tgaaaagtta tgaccatttg aatttcttca gagccttccg ttgttcaatt tcgagcgtct 240  
cgatatctta tgcgcctgaa tcggacctcc gagtgaaaag ttatgaccat ttgaataact 300  
caagagcttc cattgttcaa ttacgagcgt ctcaataaat tatgtgcctg gatcgacctc 360  
cgagtgaag gttatgacca ttgaattgc tcaagagctt ccattggtca atttcgagcg 420  
tctcgatata ttatgcgcct gaaccggacc tccga 455

<210> 741

<211> 367

<212> DNA

<213> Glycine max

<400> 741

tccattgttc aatttcgagt gtctcgatat attatgcgcc tgaatcggac ctccgaatga 60  
aaagttatga ccatttgaat ttctcgagag ctacctttgt tcaatttcgt gcgtctcgat 120

atattttgcg cctgaatcgg acctccgagt gaaaagttat gaccatttga atttctcgag 180  
agcttccgat gttcaatttc gagcgtcttg atatactatg cgactgaatc taacctccgt 240  
gtgaaaagtt atgaccattt taattttctca agagcttccg ttgttcaatt ttgagcgtct 300  
ctaactgtga tgcgcctaaa tcagacatcc gagttaaag ttatgaccat ttgattttct 360  
cgagaac 367

<210> 742  
<211> 446  
<212> DNA  
<213> Glycine max

<400> 742

agcttctata gaaggttcgt tcttaatttc tctacaattg catcacctct caatgagctg 60  
gtgaagaaga atgtggcatt tacctggggg gaaaaacaag agcaagcctt tgctttgctc 120  
aaagaaaagc ttactaaggc acctgttcta gctcttctcg acttttctaa aacttttgag 180  
ctagaatgtg atgcctctgg agtgggagtt ggagctgtat tgtacaaggt gggcacccta 240  
ttgcttattt tagtgaaaaa cttcatagtg ccacctcaa ctacccacc tatgataaag 300  
agctttatgc ctttaataaga gccctccaaa cttgggaaca ttaccttgtt tccaaggaat 360  
ttgtcattca tagtgatcat caatcactta agtacattag agggcaaagc aagttaaaca 420  
agaggcatgc aaaatgggta gagtac 446

<210> 743  
<211> 451  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 743

tttgaagttt gtcatttcaa tttctcacta agtaaaatgg atcattctta aggtccaaca 60  
ccttaaaatg atcaccactt aagtaaaaca gaatcatttg ataagcaaga actacgtagg 120  
tctgatttcc tcategcaat tgaggatagc tangagcaaa agccccgctt ttgtcgacca 180  
ccccaagaga tcgttaatgt gccaatgcct taacgtttct ctcctttcaa aaacaagaga 240  
tcgttaatgg tccaatgcct taacgtttct ctcctttcat aaacaagaga tcgttaatgg 300  
tccaatgcct taacgtatct cttctttcan aaacaagaga tctttaatgg ttcaatgcct 360



taacgtctct ctccttcata aacaagagat cgtatatgtc caccgcctaa cgttctcctc 420  
 tttaaaatca aataaccgga atgggtcaaca c 451

<210> 744  
 <211> 470  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 744

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 ctacctctca tattattgac aaattctatt tctataatat ataaaattgt atacttttta 120  
 tgtaagaaag aaaatatata aaaagaataa tttatcatta aaagtgggtt gtatattaat 180  
 tattataatt taattatgtt tatatgagaa actgttaaaa tgatatgtta aagtaaaaga 240  
 ctacggatat cattttttta ctctaacaca actaatgggt ntagcacatg tttgtgtgta 300  
 gtcatttgct gtgttcagga tcgaccgcgc agaaagtaaa atctaaaata aaaattgaga 360  
 gaggattttt tattctaaag aanataatga tagttgaagt cttttattta actgtgtgac 420  
 attgtttact ttaaaaaata atatatatca taatagacct aaagtttaag 470

<210> 745  
 <211> 445  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 745

agataaggct aatatctgca tattntnttc ctttctttct tgttttatat atgatcaaatt 60  
 tatctaattc ataagattaa aagaatgatt aatttaatta taataatata cttattttca 120  
 acttatatct tttcaaaata tttccgttat taatattttt taatggcttt gtgatatt 180  
 ttttcttttt tataaaatat atttataatt tcaaagtaat aaatattata aaatgaataa 240  
 tttagaaaga aggtaatatc attctaataa aatggtatct ctggcccttt tactcatctt 300  
 taattttgag cttaattctt atttaaattc atttaagaat gtaattatct aactatgttc 360  
 aattcaataa atgtaattcg caagtcatat ctaatggatg tattacgggc atatgatag 420  
 ttttgatgga atatcatagt taaat 445

<210> 746  
 <211> 471  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 746

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actcattctt taactaccaa cagaaagaaa tgcagttttg ctaagcccag tttagagtat 60
cttggcctca tcatttctgg ttntgggggtg gcagcagata aatccaaggt ggctacaatg 120
agttcctggc cagttccgaa agattcgaag agtttgaggg gatttttagg attgataggc 180
tactatagaa gatttgtcca aggctatggt aaaatagcaa agccttlgac tgaattactg 240
aaaaaggata gctttgtatg gacactagta gctactctag cttttgaaac tttaaaatct 300
gccatggtea gtttgccttt attagcagtt cctgattntt caaaaacctt tgttctggag 360
acaaatgctt ctagcanagg agtaggggct gctcttatgc aagagggcag gcctttggct 420
tttatgagca naggactctc ccctcgagca cagctgaagt cagtctatga a 471
```

<210> 747  
 <211> 452  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 747

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agcttctttg agaaaacttc cttgagaagc tagagcttag ctacacacac ccctctcata 60
actaagctca cctccttgag aagcttcctt aagaagattc ctaaagaagc tagagcttag 120
ctacagatac ctctetaata gctaagctca cctccttgag atgagaagtt agagcttagc 180
tacacacccc ctataatagc taagctcacc cccatgacaa aaaacatgaa aataacaaaa 240
aaagtcctta ttataaagac aactcanaat gccccgaaat acaaggctaa aaccctatac 300
tactagaatg gccaaaatac aaggcctaga cgaaggaaaa acctattcta atatttacia 360
agataagcgg gctcatactt agcccatggg ctcgaaatct accctaaggc tcatgagaac 420
cctagggcct ttccttggat ctctagccca at 452
```

<210> 748  
 <211> 433

<212> DNA  
<213> Glycine max

<400> 748

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gctcttctca agtgtcttca cttgttctat gttaagcctc ctttcttct ctcctgcctg 60
agatccatca tcagaatctt cctcagcatt agcttcttct ccaagttcaa tccctgaaaa 120
tgacatagat ctcttgccaa gaaaggatgc tctccacct gcataatcaac attgtgaaac 180
attagtatta ggccactaca caacataata ttgcaccatt ggttggtggt tttgtgatct 240
agaggagaga gtaccatggt actcttgagg tgcacatgaa gttataattg agtcgagtga 300
acgtggaggt tgatggcat cttggtgagg tgtttagca tgaaatttgc tgagaagata 360
gccatatcat tgctggctag cctatgcctg atgccactga tcttcaatgg ctgaatgata 420
ttctgatcac cat 433
```

<210> 749  
<211> 360  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 749

```
taaagattga atttcgagcg tntcggtata ttacgggact cattcagaca tccgagtaaa 60
aagttattgt cgtatgaatt ggcttaaagc ttaaacattc aactttgacc gtctcgatat 120
attacgggac tcaatcagac atccgagtga aaagtaactg ccgtttgaat aggctcagag 180
gttcaaaact caatttcgag catctcgta tatgactgga ctcaatcaga catccgagta 240
ataagttatt gtctgtgaa ttggctcaga gggtaacat tcatttttga gcgtctcgat 300
atattatggg actcatatag acatccgagt aagaagttat tggcgcttga attggcacat 360
```

<210> 750  
<211> 424  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 750

```
agctntgagc caattcaaac gacaataact ttttactcga atgtctgatt gagccccgta 60
atatatcgag acgctagaaa tggaatgttg aacctatgag cctattcaaa cgacaataac 120
```

tttttactcg gatgtctgat tgagtccecat aatatatcga gacgctcgaa attgaatggt 180  
 gaacctctga gccaatccaa acgacaataa ccttttactc ggatgtccga ttgagtgact 240  
 taatatgtcg ggacgctcga aattgaatgt tgaacctctg agccaattca cagacaata 300  
 actttttact cggatgtctg attgagttcc gtcatatatc gagacgctcg aaattgaatg 360  
 ttgaacctct gagccaattc aaacgacaac taactttttac tcggatgtct gattgagtcc 420  
 cgta 424

<210> 751  
 <211> 395  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 751

catctgatgt tntcccttta gccacaattt ccaagtactt ccctaataga ataaaggata 60  
 tcatcatgga acttgtctca aagaaatctt gtccttcana tgtgtgceca gcgcaaccag 120  
 cacgtccatg ttagcggatt ttcgcttcag tgcattgat gaacctacat agaacctaat 180  
 agtaatagcc atagtaaaat gactataaga atctccaatt tcttgaaaac aatacaataa 240  
 aattgtcttt ggtgaataaa gagaaacatt aacaagaaaa gaaattagaa ttaaattagtt 300  
 attgatagtc atagtacctt ttgccaaacta tgaactgcac aggcgtgcta agaattccatc 360  
 ttataaaciaa cccaagagta agcgtattgt ggatc 395

<210> 752  
 <211> 451  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 752

agcttataat tggcttccaa attgattttg tgtatacaat atgatggact gattcctttt 60  
 agatcagaaa tgtgccaaacc aatagccgct ttacgtcggt gtagaatttg caccagttat 120  
 tcttcttctt ctttcttcaa aaagttgcta attataaciaa gtttggtctc atcttcttcc 180  
 aagaatacat actttaaatg tgccagaagg gtttttaatt ttgctttggg cttttctggt 240  
 ggactcagtt tttccaattc ttcacaaciaa ccttgtcaac ataattgtct tttgaatcat 300

caagctcttc atcacaagct aagcaatctc tcccatagcc aggttctttn tccaaaggag 360  
 actgtagcac catggntgag gctaataatg ttatttcttg ctccacctct tcttcttoga 420  
 aataggcatc acccatatct gagtggttca t 451

<210> 753  
 <211> 351  
 <212> DNA  
 <213> Glycine max

<400> 753

agcttccatt gttcaagttt cgagtgtttt cgatatatta tgtcgctga atcgacacct 60  
 ccgaatgaag ggctatgacc attcgagtct ctcgagagct acctttgatc aatctcagag 120  
 cgatcgatat attatgcacc tgaatcgac ctccgcgaga caagattcac cgttctagct 180  
 tctcaagagc ttgcgctgga ctacttactc ccgcattaac agtgatgcgc ctacttaagc 240  
 catacgagtt tgacatcctg accttttagac tgagtcgcgc acctacgttg ctgaaatcct 300  
 atcgtcccaa gagtttttgc tctctggtga gccactacca gattattgta t 351

<210> 754  
 <211> 334  
 <212> DNA  
 <213> Glycine max

<400> 754

ggcattgcaa acgattcaca cctggactct cactcctctg ccacctcaca agcaagttgt 60  
 tggctgcccg tggatataca agatcaagta taatgcagat ggtaacattg agctgtccaa 120  
 agcgagactt gttgcgaaag gatacacaca agtggaggc ttagattacc ttgctacttt 180  
 ctcccaagtg ccaagctcac catagttcaa ctcatcttg ccctttgcag ccattttgat 240  
 tggcatctca agcaattaga cgtgaataat gcatttcttt atggagaatt gatgaagaag 300  
 ttacatgagt ctttctccag aatgcatcag ccta 334

<210> 755  
 <211> 463  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations

<400> 755

agcttattgg gagataattn tcaatcatca ttgntatatg caatgacaat caacaaatct 60  
caagatcaat cactagcatt tgtgggtttg tacttgcta gaccgatgtt tagtcataaa 120  
caattatatg tggcagtttc aagagttcaa agaaaacaaa gattaaagat ctttaattcat 180  
gacaaggaaa gaaaaccatt gaagtctgct actaatgttg ttttcaaaga ggtatttgaa 240  
aacctttaat aagtatgtcc acaagtgcta ctaattctat ttgtatcaac tataatttga 300  
tttacaatac tcgtatatct tatatgcaag tttcctcttg gagtggctgc attatTTTTg 360  
gtccttggcc aaagttacat ttttctctc tgaaatgtag atagatgcaa gtatcatggg 420  
tcttaacata ttgcattggg gggaatatgt ggaaacaata tga 463

<210> 756

<211> 169

<212> DNA

<213> Glycine max

<400> 756

agaatcgga gaagtaattg gctttttccc tggcgatcta actgcagatc tcttgacctc 60  
tgccgtggaa gcagctgcat aagccattca tgatatttct acaccttaga tcaacatgat 120  
gaaagcagct ggggtgggacc ttgatgctga tgccaactga ctcgaacct 169

<210> 757

<211> 297

<212> DNA

<213> Glycine max

<400> 757

aagaatatcc ctttatttac aatattgtca cttttaataa tttatcatca gttcgagaga 60  
taatatcggg tttgatcaaa attaattgta acgagcattg tttattaagg tcgtcaaagg 120  
aaacttattg atgcaatgct acccgccaag ggcattggat agaagactcc aagaagattg 180  
ggtcagatag gcaagagaag gccctagggg tctcaagagc cttatggtag atttcgggac 240  
catgggctaa gtatgagccc acttatcttt gtacatatca tattatgatt ccattat 297

<210> 758

<211> 359

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 758

agctntgcaa caaatgtcac tctactcgaa atttctgata gatatgtttg acaggaaaaa 60  
caaacacgtc caccacgaga atattgtcgc ggaacgaaac cgcagtgtg taatacagag 120  
aattcttcca ccaaaacata aggaccctgg tagcgcaact actccttgat caatcgaaga 180  
agtcactctc ggaaaggctc tcattgactg gggtgccaga atcaacctaa cggcgctctc 240  
tatgtgtaca aggtcgggag agctggaaat cacgctcacg agaatgactt tacaacttgc 300  
taaccgatcc atcacaagac cttacgggtgc agatgaggaa gtactgacta gagtgaaac 359

<210> 759

<211> 389

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 759

tatcttaagt cacgtgcggc atgcaagctc gactagtcca cataagtgag aattcntatt 60  
tgtctaagac gaggagcatt aagggttatc attgcctgac aataccgtc atcaacataa 120  
catttggtg gtttgcagaa ttctttgagc ttaggatagt aagtattgtc ttcaactatc 180  
ctaagagcta gttctcggct aatttcaaac cactgggagc cttttcacca ggcactcatg 240  
ttgatttcaa attattttgt ttggtattag aagcatactt cccaatgag tgagaaaagt 300  
gtacataaca tatttaatag catgaacaaa caatttataa agactcagga taagatcatg 360  
aacaagcatg agccagaaac ccatgatca 389

<210> 760

<211> 448

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 760

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ttatgaatga caggatgtag tgacataaag tgcttagaga gttcacttgc atgtgaaaaa 120  
ttttcaaaaa gaaaaagact taagttaaaa ggataatgca accagattaa tacttccaaa 180

gaaaaaaatg ttttgcaaag acattttcag acaattttaa tttttttatt tgactatatt 240  
 . agtataaatc atctctaate catatatatt ttaatatatt gttctttnta ttcattntct 300  
 tttgatatac tttgtgtttt aataatttga attcaatatg attntgttta tcaattattt 360  
 ctggatttga catntactta tacgaaattt ataagtttct ttttttggtg gtatttacta 420  
 ggttttaa at gtttaattggt aaagacgt 448

<210> 761  
 <211> 427  
 <212> DNA  
 <213> Glycine max

<400> 761

ttcacattta cttgatgggg cctatgcacg tcgaaagcct tggaggaaag acgtatgcct 60  
 acgttgatgt ggatgatata tccagagcta cctgcgtcaa ctatatcaga gaaaaatcac 120  
 acccctttga cgtattctag gagctgagtc taagacttca aagagaaaaa gactgtgtca 180  
 tcaagagaat cacgagtgac catggcagag agtgtgacaa cagcaggttt actgaattct 240  
 gcacatctga aggcataact catgagttct ctgcagccat tacaccacaa cagaatggca 300  
 tagttgagag gaataacagg actctgcaag aggatgctag ggtcatgctt catgccacag 360  
 aacttcccta taatctctgg gctgaagcca tgaacacagc atgctacatc cacaacagag 420  
 tcacact 427

<210> 762  
 <211> 477  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 762

ctcagcttag gatgagctnt attatgaaca taagacttaa ttntacatat gcatctttct 60  
 attggataca tccacctgta ttgaacagga ccacctaatc taactttggt tgccaagtga 120  
 acaggaaagt gaaccattat gtcaaaaaac ttggaggaaa aatcatctct gattgacaaa 180  
 gaatttcaat aatttgtgat tctatataat ccaaattctt tacctggatc actntctaac 240  
 acaaagagcg aaagaaggat ccaaggtgaa ttaaaagatc aaccaccaca ctaggcattg 300



tgcttctaata tgctatttgt aataagtaata gtaacatgat atgtgtatca tgactctngt 360  
agccagaata tttgtcagtg atatgcatgc attntgaaat atttgttgca ctcccatcta 420  
ngcaattggc atctttcaag ataccacana aaatagactt ctttnttgta gtcatta 477

<210> 763  
<211> 477  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 763

cttctaccta tgacagtgc aagggatggt tccctagata gtagaaggta tatagattgt 60  
tttagaagga gtgctctttt gatatacct tttgttataa aatgattttc cttcttaaaa 120  
atcttcttgg aggaatcctt ttctctttt tcttccct tggccttga agagaaggcc 180  
ttactatcct tctttttctt ttgttttct agtttttctt cctcatcctt attatctttc 240  
atagttagtt gatctttggc cacctgtgaa ggtgtttgag gatgcaacac anatttagtg 300  
ccaagatggg tgagggtaat ctcatagtt aggccattt aaatgatctt cctatcanat 360  
ttccatggcc ttctaaaag aatatgcatt gcctccatgg gaactatatc acaattaact 420  
tcaccctttt atgtcccaat ggagaaagg acctttactt gttggctaata tatcatt 477

<210> 764  
<211> 449  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 764

agcttattgg gagataattn tcaatcatca tttttatatg caatgacaat caacaaatct 60  
caagatcaat cactagcatt tgtgggtttg tacttgcta gaccgatggt tagtcataaa 120  
caattatatg tggcagtttc aagagttcaa agaaaacaaa gattaaagat ctttaattcat 180  
gacaaggaaa gaaaaccatt gaagtctgct actaatgttg ttttcaaaga ggtatttgaa 240  
aacctttaat aagtatgtcc acaagtgcta ctaattctat ttgtatcaac tataatttga 300  
tttacaatac tcgtatatct tatatgcaag tttctcttg gagtggctgc attattttgg 360  
gtccttggcc aaagttacat ttttctctc tgaaatgtag atagatgcaa gtatcatggn 420

tcttaacata ttgcattggt ggaattatg

<210> 765  
 <211> 401  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 765

cgaatcggac ctcagtgtga anagttatga ctcttttgaa tncttctaga gctttcgttg 60  
 gtcaatgtcg agcatctcga catattatgc gctcgaatca gacatccgtg tgaaaagtta 120  
 tgaccatttg aatttctcga gagcttccga tgtttaattt cgagcctctc gacatattat 180  
 gcgcccgaat cggacatccg tgtgaaaagt tatgaacatt tgaatttctc gagagcttcg 240  
 gatggttaat ttcgagcctc tcgacatatt atgcgcocga atcggacatt cgtgtgaaaa 300  
 gttatgatca tttgaatata tcgagagcct tcgatgctta agttcgagcg gactcgatat 360  
 atataagcct gaattgccct cagtgtctaa agtatgacca t 401

<210> 766  
 <211> 356  
 <212> DNA  
 <213> Glycine max  
 <400> 766

agcttatcta tttcttttga tgaacttcaa gattcatttt taacttgcac aaagaatctg 60  
 tcaaacttgc caaattattt tcatttttcta agaaaactat tttaaattta gaaaagaaag 120  
 ttttgaaatt aaatgtagaa ttataaaatc ttaaagcaga agttaaaaca ttaaaaccaa 180  
 tagatacaaa ccaatctctt actaaatggt taatacaaga tagcaatgaa gcattctcatt 240  
 catgtaaata ttgtaaaata tttaaagaag aaattaaaga tgtaaaagat tctctttcca 300  
 tacttactct tggcaaaaat aatttatata ttatactagg aaaacatata tgtgtt 356

<210> 767  
 <211> 444  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 767

agctnnttga anagacacat ctcttcttan atttttgaaa aggcacgaag gacctatata 60  
 tgtgtgtgtc caatttcaaa aagcaagaga tagatattcc aagaaaactt cattgtcaaa 120  
 tgctctctca ataactcttg ggcaaacact tgcaaatcta ttgagagttc atccaagaac 180  
 ttcaaattgt attattcact cttaaaggaga ggaatcttcc tgttcttctt agaaagtcaa 240  
 ttgtaatcaa aagactagtt gtctcttgaa ttatgagttt cctgaacaca acggaaaggg 300  
 attccttgng tgttcaaaag ttgcaaaagg gttgtttaca aagatagtg aaatctcaa 360  
 gtgggttgct tgaggactgg acgtangcac gggaagcggc cgaactatga taaatcgagt 420  
 ctgcatatct ctcttccctt atct 444

<210> 768  
 <211> 363  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 768

ctataaaact aagctttgcc tcnacatat tatttccaac ttccaatgct ctgngaactcg 60  
 attacaaggc aatgtaatcg attaccagaa gacaattttg aaaaacaact tttaaaaaag 120  
 gttttgaatt taaattttga atcatgtaat cgattatcag atgtttgtaa tcgattacca 180  
 acaacggcac ttcagtaaac actttgaaaa gtcatgaccc ttcaaaatat aattgtgtaa 240  
 tcaattacca aaaacctgta atcgattacc agtgaagagt tttaggaaaa atcttttgaa 300  
 aagacacatc tctccaaacc attttgaaaa ggcacgaagg gcctatatat gtgtgtgtct 360  
 gac 363

<210> 769  
 <211> 329  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 769

agcttatccn cacaagagtg cagaacatct ggtgatgtct gcattgatta taggaggctg 60  
 aatcaggtaa ctagaaaaga tcattttccc ctgcctttca ttgatcaa at gcttgagcgc 120  
 ttggcaagta agtctcatta ctattttctt gatgggtttt ctggttattt acaaattcat 180

attgctcttg aggatcaaga aaagaccaca ttcacctgtc cctttggcag ttttgccat 240  
aggaggatgc cctttggcct atgcaatgcc cttggtacct tccagcgggtg tatgcttagc 300  
attttcagtg attttttaca gacttgcac 329

<210> 770  
<211> 385  
<212> DNA  
<213> Glycine max

<400> 770

actcagcttg ccgcacggac gtgtccgact atgctctatt cgtggggaac atgctacgaa 60  
aggagagagc acgagalyaa gagccaatgg ttgatacatg gacggagatg aagatgatca 120  
tgaggaagcg gattgtgccg gctagctact caagggactt gaaattcatg ctctctaaac 180  
taaccaagg caacgaagg gttgaggagt atttcagga tatggatgtg ctcatgattc 240  
atgcaaatat tgaccaatat gaggagggag ctatggctcg atctcttaat gtgttgacta 300  
atgacatacg cgatattgtt gagctgcacg agtttgttga aatggatgat ttgcttcaca 360  
aagcaatcca agtggagcaa caatt 385

<210> 771  
<211> 453  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 771

agcttataat atattattac gctcgaatgt attcatcaga agctctcgag aaattcaaatt 60  
ggtcataact tttcacccgg atgtccgatt atggcgaatc acatatcgag acgctcaaaa 120  
ttgaacaacg gaagctcttg agaaattcta atggtcataa cttttaactc ggatgtccga 180  
ttcacgcgca tcacatattg aggcgctcga naaggaacaa cggaagctct cgagaaattc 240  
aaatggatcat aactnttcac actgagggtcc gattcaggat tataatatat caagacgctc 300  
gaaattaaaa atcggaagct ctcgagaaat tcaattggtc atcacttttc acacggatgt 360  
ccgatttggg tgcataatat gtcgacacgc tcgaaattga caacggaagc tctcgagaaa 420  
ttaaatgggc ataactttat actgagggtc atc 453

<210> 772  
 <211> 434  
 <212> DNA  
 <213> Glycine max

<400> 772

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 atactctgat attgatgggc ttgatttatt ctacaaattg acagtactaa gagaagtgtt 120  
 aagagaagaa attagcacac caatagaact attgagttat attaaaactc tatattcttt 180  
 tccaaatgtt tacattgcat ataaaattct attgacaatc tttgtaacag ttgctactgc 240  
 tgaaagacgt tttgaaaaaa agttgttcat aacatacaca gaataaagat gatctatttt 300  
 gcatctaaat tatattttaa taaacggcat attaaatgtg tacatgttaa ttgaagcatt 360  
 caaataattg gtgttacgag agaatgagaa gagaagtgat aacttggtac ttcaacgtgg 420  
 agcctaagaa tgta 434

<210> 773  
 <211> 301  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 773

ctcagcttgt gatcctgac tacagacgac tcggttttat gctcttggtc ttaactatat 60  
 ctaggncaga tatatgctat tgtgtgcaca aattatatca acttgctctc aacctctata 120  
 cgaaccacat gcattgctact aacatgtctc ttcgggtacct taagcacact gttattcaag 180  
 gtattttttt tatggccaac ttatacacia aattacatgc atatgtggat gcagattaac 240  
 gatcatgttc tgaaagttaa agatcaacca ctggcttctg tatcttctta gaaattcctt 300  
 g 301

<210> 774  
 <211> 467  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 774

ttaagtcgac gcggctgcag ctgctaagac cgatatnggt tcttattttg ttctcatgng 60

ctccttttct taaactgaga accccattgg ttggttcata taaacattct cctcaaaatc 120  
 tccattaaga aagacagttt tcacatccat ctaatgtagc tccaagtcac aatgggctat 180  
 taatgccatg ataatcctga aagaatcctt tcatgagaac ggcgaaaatg tctcttaata 240  
 atcaatgtca tctttttgag taaaatccct tagtaacaag tctagcattg taatgttcaa 300  
 gggtgccatg agagtcattg ttagtcttga agaccactt tcaactaact ctcttataac 360  
 cctttggtaa ttctacaagg tcccaaatat cattatgtgc catggaattt atctcttctt 420  
 tcatgggtatt taaccacttc tcagaatcat cacagcttgc agcttgc 467

<210> 775  
 <211> 450  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 775

agcttcanac ttcgntgcat ctaaccacta tctctnttct tcactttcca tggectctct 60  
 aaagcactca gggtctccat catctgttag gatcacatac tcattagtag aatacctatt 120  
 agaaggttgt ctttcttgt tggacctcct gagttgaact tgagggtggc cgatagcacc 180  
 accaagattt tcatcttgtg acatgtcatg ctctcttcca tacatcattt tgaacatcag 240  
 tatttagatt ctgaatatgc ggctgaactg gttcaaaatc aaccacacca acattgtctt 300  
 ccttgggtgt agacttcttc accttatcaa tgtcttgaat gggttgggtt ttcattgaatt 360  
 tcacatcacg gcttctgaca agcttcttct caacaggatc atataacctg taaccaaatt 420  
 cattctcatc ataaccaatg aagatacatt 450

<210> 776  
 <211> 333  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 776

actcaagctc tgaggaactt canacaacaa caactntnta ctcgatgtc ttattgagac 60  
 ccgtaataata tccagacact cgaaattgaa taccgaagct ctgagcaaatt ttaaagcaca 120  
 atacgttttt actcgtatgt tcgattgagt cccgtaatat attgaatcgc tcgaaattga 180

agaccgaagc tctgagcaaa ttcaaacagc aataaatttt tacttggaatg tctgattgag 240  
 tcccgtagta tatcgagacg ctctgacttg aatgccgaag ctctgagtaa attcaaacga 300  
 caataacttt tttcctcgga tggctgattg agt 333

<210> 777  
 <211> 228  
 <212> DNA  
 <213> Glycine max

<400> 777

agcttcgaca ttcaatatcg agcgtttcga taatttactg gacttaatca gacatccgag 60  
 taaaaagtta ttgtagtttg aagttgctca gagcttcaac attcaatatt gagcggttcg 120  
 atatattacg ggactaaatc agacatcaga gtaaaaagtt attgtcgttt gaattatctc 180  
 agagcttcgg cattcaagtc cgagcgtctc gatttattac gggactca 228

<210> 778  
 <211> 425  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 778

ngaagttgct gagctgaaat ccaagtattg tggctctctt tgttnttacc cattatatgc 60  
 tgtagtttcg ttgttagatt ttttctttat aggaatttat ggtcctgtaa gttcattgag 120  
 agggcccagg cactaataca tggagatcta cacactgggt ctgtgatggg tactcgtgaa 180  
 tcaactcaag ttattgatcc agaatttgca ttttatggac caatggggtt tgatattgga 240  
 gcattcttgg gaaacttgat tttggctttc tttgctcaag atgggcatgc tgatcaagca 300  
 aatgatcgaa aagtaggtcc cctttttcca tgtcttctgt ggtccttact tgtcctcttc 360  
 tttgcatact ataagttgta tttagtcaca tttcttgta ttctccataa tctagctacc 420  
 actta 425

<210> 779  
 <211> 423  
 <212> DNA  
 <213> Glycine max

<400> 779

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tgtgttggtt gattctggtg ccaccattc ctttatatcc tgtttgtgtg taggaaaact 120  
taagctttct gtgtcttctt taaataaaga tatagtagta gagacccta ctagtggttc 180  
tgtgttaact tctgatgtgt gtttgaattg ttctgtggag atttctggta ggatattctt 240  
gattgatttg atttgtttgc ctttgagcca gattgatgtt attcttggta tggactgggt 300  
atcttccaac catgtcttgt tgaactgttt tgagaaaagt gtggtgtttg atgattctgg 360  
agtgaagtaag gatatgatgt ttatctctgc caaccaagggt gtgacatctt taaaggaaga 420  
tgc 423

<210> 780

<211> 372

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 780

tagcatgtta taaatatatc tattagcata atttatacta gtgagaatat ttgtatgggt 60  
atcttaccag aagcagagct cattcaccct ttgaatcaag atgtatagta ggtccgggtc 120  
tgcaacagta atgcagggtga tcctcttcaa ttgatcatg ttttgtttgc tanaacatca 180  
taccatctat tgccatttac tcgaatttat agtcgctaac attagctact acaattaaaa 240  
taacttaaca gggtattgca attctatcta gtatatataa gaaataatat ggcattgcagt 300  
ttatacatat attttcttta taaagaggaa tcataatttg tatatatttg atgcatttaa 360  
agtttttact at 372

<210> 781

<211> 262

<212> DNA

<213> Glycine max

<400> 781

agcttcgggtt gttctatttc gagcatcttt atatgtgatg ttctgtatc ggacctccgt 60  
gtgataactt atgaccatta taatttctcg agagcttccg ctgttcaatt tcgagcgtct 120  
cgatatatta tgcgccccaaa tcggacatct cggggaagggt ttatgaccat atcaatatca 180



cgaaagcttt gggtggcaat ttctagcatc tcaattgtga tggtcctgta tgggaccttc 240  
gtgtcataac ctatgacctt tt 262

<210> 782  
<211> 407  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 782

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ttgtggaccc tatttgcttc ttgatgcaat cctaccccct aaggacattg aataaaagac 120  
tccaagaaga ttggaccaga gagatgcaag agaagacctt aggattctca tgagccttag 180  
ggtagatttc gggcccatgg gttaagtata agtccactta tctttgtaca tatcatatca 240  
aggttttatt atttttgggc cttgtattta gggctctata gtgtaggtag ggtacccttg 300  
aaatgtagga tttttcagcc cttgtatttt agggcacctt gactagttaa ttgtattagg 360  
ggtagttctg taatttcaca tacattaagt gaatatttga tgtgtgt 407

<210> 783  
<211> 386  
<212> DNA  
<213> Glycine max  
  
<400> 783

gcttggcaca atgccactcc atttactatc cgagtatata gtggatcttg ggatgacaat 60  
ggcattttta tttacacaac attaaatcat ataaaatatt gcctcccca tggagatagt 120  
gggataatta aaacattgga tgtcccaatt tatattacaa aggttggttg aaacaccatc 180  
ttctgcttgg gtcgcatgg gaaaaacaaa gctataactg ttgatgcaac agaataatc 240  
tttaagcttt tcttggtgaa gaaaaaatat gatcatgtaa tgaacatgat aaagaattcg 300  
cagctttgtg ggcaggctat gattgcttat ctacaacaga aagggtttcc tgaagttgcy 360  
ctccattctg tgaagatga gagaat 386

<210> 784  
<211> 417  
<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 784

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ctccaatctt taatggagag gggtaccact actggaaaac ccgaatgcaa atttttatcg 120  
aggcaataga tctaaatata tgggaagcca ttgaaatagg gccttatata cccaccacag 180  
tagaaagagt ttcaatagat ggtagtcat caagtgaag cataaccata gaaaaaccta 240  
gagatagatg gtctgaagag gatagaaaac gagtacaata caacctaaaa gccaaaaaca 300  
taataacata tgccttagga atggatgaat atttcagagt ttcaaattgc aagagtgcta 360  
aggaaatgtg ggacactctt cgattaacac atgaaggaac tacagatgtt aaaagat 417

<210> 785

<211> 413

<212> DNA

<213> Glycine max

<400> 785

tgtaatcgat tacacacata ctgtaatcga ttaccagagc acattttcaa aaaatattct 60  
caacagtcac atctttttat gtggttcttg aatggctatc aaaggcctat atatatatgt 120  
gacttgagac acgaatttaa gaagagtttt tggagaacaa aaaggcttta tcctattaaa 180  
aagcaaactg tgttatctc ttacaaattc cttggccaaa ttacttgtga ttcaataagg 240  
aattatttga gtgctcaaat tgttcagtct atctctttca agagagattt cttcttttct 300  
tcttcttcat tctgaaaagg gattaagaga ccgaggggtct cctgttgtga aagaattcta 360  
aacacaaaagg aagggttgtc cttgtgtgtt tagaaccttg taaaggaatt tac 413

<210> 786

<211> 369

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 786

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taagagaatt cagatggact ttaatcctaa ttccacaagc gaccttttca cgagatctct 120

acttaaccct ttgggtacat gatcagccac attatgctga gttctcacia actccactga 180  
 tatcacacca tgcattgatta actcccgaac catgtttgtgt ctaacaccca agtgtctaga 240  
 ctttccatta tacactggac tatatgcctt agccaaagnt aatatggggt aaccttattc 300  
 cttttggtag gaattcagtt taacatgtaa caggttgcca acatagcctc accccaaaat 360  
 ccttcactt 369

<210> 787  
 <211> 391  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 787

agctntggag aaccaagcca atcagaatgc tagacgaaat atagatggga atagaggtaa 60  
 caatggcgggt aatgacggac cgaggcagaa ccgggttgag ggagtaaagc tcaatgttcc 120  
 tcccttcaaa ggtagaagtg atccagatgc ctacctggac tgggaaatga agactgagca 180  
 cgtatttgcc tgcaatgact aactgatgc gcagaaagtc aagctagcag cagctgaatt 240  
 ctccgactat gcccttgttt ggtggcataa ataccaaaga gaaatgttga gagaggaacg 300  
 gcgagaggta gatacatgga ctgagatgaa aagggtgatg agaaaaaggt atgtgcccac 360  
 tagctataac aaaaccatgc gacagaaact t 391

<210> 788  
 <211> 425  
 <212> DNA  
 <213> Glycine max  
 <400> 788

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 agttcttggt attcaattat ttgttttcta agaaatccga ctcaatacga attttctgag 120  
 acttcattca cttcaattta ctaccacaaa ttgcctcatg tacctacaac aattctttta 180  
 cctgtattga aaaatagggg tatggcaaaa aaattagagc aattgtcttc cactgagtgg 240  
 gcataagctt agcaagatga agtagctttt tatectcttc tcttgtccac ccaatctata 300  
 cacaaaaagc atcagattga aaaatcactc attagaaaaa tatcacaaca attaataaca 360  
 tagttggtac atactcctta tcaataacat cttaaaaaaa gagaggctct taaacccaaa 420

gaaag

<210> 789  
 <211> 399  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 789

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 ttaacaatgt tcttttaaac gtgcaaggaa aaattgattg caataaaata aatgagataa 120  
 gggaagagag aaatgcaaac ttgatttata ctggttcgac cactttccgt gcctacatcc 180  
 aatcctcaaa caacctactt gagattttcc actatctttg caaaaatcct ttttacaact 240  
 tctgaacacc caaggaatca ttttcccttg tgttcaagaa actcacaatt caagagacaa 300  
 ccagtctctt gattacaatt gattttatga gaagaacaaa aagatttctc tcttttagag 360  
 tggataatac aatttgaagt tcttggatga actctcaat 399

<210> 790  
 <211> 415  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 790

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 tgagatgttt ggttttctac cattgaacaa ttcatatgga gttttcttta agataggtct 180  
 gattaaagcc ctattcatga tataacatgc agtattaaca gtttcagccc aaaaatattt 240  
 tggaagagga gtatcattca ataaggttct agcaatttct ttcacagacc tatttttctt 300  
 ttcaacaact tcattttggt gagggggtct aggtgcagaa aaaatatggt caataccatg 360  
 cttttcacia aataagtcaa attctttatt ttcaattccc cccatgatca ctctt 415

<210> 791  
 <211> 410  
 <212> DNA  
 <213> Glycine max

<223>      unsure at all n locations  
 <400>      791

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 aggcaaaaga tcaagaggag ttagtgggtt aaaaccataa acaacttcaa aaggagaaca    120  
 attagtggca ttatgaacaa ctctattgta agcaaattca acatggggta aacaagcttc    180  
 ccaagttttt aagttcttcc tcaaaactgt tctaagcaaa gttcccaaag ttctattaac    240  
 aacttttgtt tgcccatcgg tttgtggctg acaagtgggt gaaaataaca atttagtgcc    300  
 caacttgctc cacaaagtcc tccaaaaatg gcttaagaac ttagagtccc tatcactaac    360  
 aatgctcctt ggcaaaccat ggagtctcac aatctcctgt tggatcaagt                410

<210>      792  
 <211>      410  
 <212>      DNA  
 <213>      Glycine max

<400>      792

tcttaagcac ctgcggcatg caactatacc ttatcggaat tggaaaagat ttaatgtaag    60  
 tcaagagcat gatagtgtgt cgataccatt aactgggtcac aggttcttaa gcaggccgag    120  
 ggcatacata ttgtatttgg aaagacccaa gagaaggaaa aaactaaaac ttccatatgg    180  
 aagaagaggt cgatattgtt tgatcttcca tactgggatg atctagatgt cagacattgt    240  
 attgatgtta tgcattgtga gaaaaatgtg tgtgatagtg tcattagcac acttggtaac    300  
 attcaaagaa agacaaagga tggtttgaat actcaccagg atctagttaa gataggtata    360  
 cgagaccag tacattcaag gtctgatggt aacaaaatat acttgccttc                410

<210>      793  
 <211>      388  
 <212>      DNA  
 <213>      Glycine max

<400>      793

ttctctacca cttgtcatcc acaaactgat gggcttacag aggtagtgt taggtcttta    60  
 tccactcttt taagggtctt tctaaaaggc aaccataagt cttgggatga gtatcttctt    120  
 catgtagaat ttgcctacaa taggggcgtt catagaacca ccaagcaatc cctttttgag    180

gttgtctatg ggttcaatcc cttaacaccc ttagacctca tteccctccc acttgacact 240  
tcttttatac ataaagaagg ggaatctagg tcagagtttg taaagaagtt gcatgagagg 300  
gttaagaccc aaatagagaa ccaaacaaag gtgtattcaa ctaagggcaa tagaggaaga 360  
aaggagctag ttcttaatga gggggact 388

<210> 794  
<211> 380  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 794

ntgagcaaat tgaattgact attactttat acacggatgt ctggttgagt ccagtaatat 60  
atcgagacgg tccaaattga aaatggaagc tcgtaggaaa ttcaaacgac aataactttt 120  
tactcggatg tccgattgaa tcgggtaata tatcgacacg ctcaaaattg agactagaag 180  
ctctgagcaa actgaaacga caataacttt atacatagat ttccggttga gtcccgtaat 240  
atatcgagat gctccaaatt gaaaatggaa gctcttagaa aattctaacg acaataacat 300  
tttactcgga tatccgacag agtctcgtaa tatatcaaga cactcgaaat tcagaacaga 360  
agctctgaga atttcaaacg 380

<210> 795  
<211> 411  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 795

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agcaaggtta caagagaact tcacgtgcag ctcaattcat caggatgttc gcagattcat 120  
cgaacaatgc ctcgattgtc aacataccaa ttatatcact aggaaaccag ttggactact 180  
tgcacccttc cctctaccaa ctcgaccatg ggaagacttt tcaactcgatt tcattgttgg 240  
tttaccatct tactgngggg atacaaccat attggtgggt gttgatagat tnttgaaggg 300  
cattcatttg ggtcttcttc ttccacacta tactgcgtac caagtcgcaa acctcttctt 360  
ggatattggg tctaaactgc acgacatgcc taagagccta gttntcgata g 411

<210> 796  
 <211> 404  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 796

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aagggttgc atctgagtggg gagttctaga aggcttctct ttgttggtgc atatgtgcga 120
tcaggaagaa tggcgtgac actagccgcc atgttttcta tgagttccat tgcctcctcc 180
ggtgtcttta gcttaatctt ccctcttgcg gatgcatcca atatttgctt tgattgtggg 240
cgcaggccat ctatgaagat gtttagttgc accgattcac tgtacccatg tgtaggcatc 300
tttctaagta gtccatggaa acggtcgagt gcctcgctga gggattcatt anngaaatga 360
tggaataaag agatttccat cttcccttta gcgggccttt gatt 404
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<210> 797  
 <211> 394  
 <212> DNA  
 <213> Glycine max

<400> 797

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agcttcaaga aaaatggcct caacaaattc cttatttcca gaaggaaatt ctatcaatag 60
acctccaatc tttaatggag agggttacca ctactggaaa acccgaatgc aaatttttat 120
tgaggcaata gacttaagta tttgggaagc catagaaata gggccttata taccaccac 180
agtggaaaga attacaatag atggtagcac atcaagtga agcataacaa tagaaaaacc 240
tagagataga tggtcagaag aggatagaag acgagtacaa tacaatttaa aagccaaaaa 300
cataataaca tcagccctag gtatggatga atatttcagg gtttcaaatt gtaagagtgc 360
taaggaaatg tgggacactc tacattaaca catg 394
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<210> 798  
 <211> 416  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 798

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 ggtaagacct atacaaaatg acattgtata gaggtcttta acagagtcga tgccatcatc 120  
 catcaaatat atagtactaa tttggattga aaatttacat tttctcgtag gttcttgatc 180  
 gtggagaaaa gattgagctg ctctgggata agactgacaa ccttcgggtca cagggttcat 240  
 tttctctctt attcttttag atatatcttt aatctaattt acacgacttt gtgttcattt 300  
 tttttttatt tttttgttaa atatttctta cattatttaa atttttggtg ttagtatatg 360  
 ctgacatcat tagntacttg gttttaattt ctatctcaac ttgttatgcg atgact 416

<210> 799  
 <211> 408  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 799

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 taacctcaa tagcagtcaa ttcacacaac ataaccaca ggacagaaga ttaagacatg 120  
 gtgtgaagga acttaccgta ggtttgagca attctataat ttcttgagct tgccaaagcc 180  
 ttatgtcaac aatattagca agtaaatcaa cctcaatcaa aatgtgggat tgctcattgn 240  
 gatgctgect ggtcttcttc ttaatttttt ctctctttac gattgaaagg ataataatct 300  
 tagacattac acaagaataa tatatagatc aataaaaata agcatcatat ttatttcaca 360  
 cttntaata ttagacctag aaaggtcata tcaggccttc attacctt 408

<210> 800  
 <211> 427  
 <212> DNA  
 <213> Glycine max  
 <400> 800

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 ctattacaat gcaccaaga gaccatatat ctaacgctgg ttcaatctga ccaacgaccg 120  
 attctggtga catgtaaaaa ggtgtccctc taaacttgac cttcccatac tcagcatttg 180  
 catcttctct agtcttggac aaccctaaat cagcaatctt cagttgatac cttgcatgat 240  
 catcagatga aggaaagaga aggatgttgt ccggtttgag atcacaatgg acgactcctt 300



ttcgatgaat gcaagaaagc cctttgagaa gcatacgagt gtagactott acttcactat 360  
 ccgatattgg ccccttcttg ttactaaacc aagaagagaa ccataaggag cacactccat 420  
 gaaaaga 427

<210> 801  
 <211> 402  
 <212> DNA  
 <213> Glycine max

<400> 801  
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 aagtcogtac catgtgtttc ttatgttaca atcttactca aagtgcata cttttgttat 120  
 gatctttcag agtctaagtt gttcacctcc cgtcatgttg aattcattga agatgttctt 180  
 tcgttttctt ccacttcaag tcaacaacac atgatccata accctcaa tcaaaattca 240  
 caaccgaatc ttccaaatcc aacctccacc aattccaaca aacaattcag attccagctt 300  
 atattttaat atcaacattg taccaccca agcacctcaa tatcaaccac ctttaaattc 360  
 aaattccacc ttctcacaat tccagcttat cttttaatat ca 402

<210> 802  
 <211> 360  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 802

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 taaatatatt catcaggaaa acatcatagt ggaaggaaat tgcagtgggtg tgatccaaaa 120  
 gatccttcca cctaagcata aagatcctgg gagtgttaact attccttggt caactagaga 180  
 agtcaatgtg ggaaaagctc ttattgacct aggagctagt atcaattga tgccactctc 240  
 catgtgcaga agattgggag agttggagat aatgccact cgaatgacat tacaattagc 300  
 tgaccgctcc attaccangc catatggagt aattgaagat gtgttggtca tagtgaaaca 360

<210> 803  
 <211> 394  
 <212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 803

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gatatcttaa gaaggggggg ttgaattaag atattccaaa ctgtttcccc taattaaaaa 120  
tctatTTTTt tttttactta agttatgaat tcccttaatg acaatcttct taaatattaa 180  
ttcaaagtaa gcaacttgaa tatgaatata aagcaataat aaataaagga gattaaggga 240  
agagaaaatg caaactcagt ttatactgg ttcgccaca cccttggtgc tacgtccagt 300  
ccccaagcaa cccgcttgag agttacacta acttgtaa atctttttaca agttctaaac 360  
acacaaggac aacccttctt ttgtgtttag agat 394

<210> 804

<211> 429

<212> DNA

<213> Glycine max

<400> 804

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tcaaacttct tgcattgatc agaagagagg ggaaagcaac ttcaaaccgc ataggcatat 120  
gttctgcatt ttcattctga agcttgata aattctctt aaaaaatgac attctctgta 180  
catatgaatg catatataca caatagaaac attaaattaa cataaacgtg ctgataaaaa 240  
aataacattt atattcataat actttactat ttcccggtcc tcttctttta ctatggaata 300  
gagggtgtaa agtattgcag aaaagaaatg attaaagata tgtatctaac aaaagaaatg 360  
attaagagta tgaaaatatc tgggttaaaa aaaaaagagt acgacaatat cacagtcagc 420  
aaggaattc 429

<210> 805

<211> 353

<212> DNA

<213> Glycine max

<400> 805

tcctctcagt cacctgcggc atgcaagctt gtaaaaaggg aagcaagta aaaactcttt 60  
tcaaagtaaa aacgttggtt ctacttcaaa accctttgaa ctacttcaca tagacttatt 120

tgggtgcctct aaaactatga gtttggtgga gaattactat ggcttagtta tagtagatga 180  
 ttactcaaga ttcacatgga ctttggtttt gaaaaccaa gatgaagctt ttgatgggtg 240  
 ttgcacactt gccaaaggta ttcaaatga aaaaaggctt taacattggt tcacttagaa 300  
 gttatcatgg aggtgaattt caaatgagtc tcttgaaatg tttgtgagaa aat 353

<210> 806  
 <211> 412  
 <212> DNA  
 <213> Glycine max

<400> 806

tgttggtatg tgatcaaaga agatgtcatc ttatctatct ctgaatttca ttctcatggt 60  
 tccattccta cgagtgggaa cacgtcattt ctagctctaa ttccaaaaaa ggagaaccca 120  
 caagaattaa gtgaatacat actcttatta ggtgcattta taaaattatt gatgaacttc 180  
 tagcaaagag attgagatgt attatagggg tgttggtgga tgacaggcaa ttcacgtttc 240  
 tgggagatag gaacatgtta gatggagtgg tcattaccaa tgaagtgatt caagaggaaa 300  
 atcgttaagt taaatcatgt gtggtgttca agacaaatcc tggagtgggc attgtcaatg 360  
 aagtattca tgaggcctac cagtttgggg ccgatgcttc tagactaact ac 412

<210> 807  
 <211> 383  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 807

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 cgaaacaccc aaaagccaaa ttccccacca aaattcaact tcctaaaagt cctattggcc 180  
 catgattatg catgttatcg ttgatttgat aggaaatgat ttgcaaagtc aaatcatgac 240  
 atatctatgg tttggaatta ggatgaaaca cttgcatgtg tgagatttta tacactntga 300  
 gtggttttcc tctatttcat tcgcaccag tgtttcttct aaatgccctt ttagaaatga 360  
 aatgctaata tcccacaatc tca 383

<210> 808  
 <211> 390  
 <212> DNA  
 <213> Glycine max

<400> 808

acaaagaata ggttcattca taagcttata ttttaataaa ttataagttt tctcatgcac 60  
 atcagtcacac ttgaacacca catccttttt tacaagttca tttaaagggtg cagcaagtga 120  
 actagctaaa ccacgaaaac ttcttacctc attagcattc ttaggtacag gctattccct 180  
 aagtgccttt actttttctt cctcaacact tattcctttt gagctagtga caaaacctaa 240  
 gaatacaaca aattcatggc aaaaagaaca cttttaaaga ttggcacaca atttatcttc 300  
 tctcaaaaca ttaaaaaataa catgtaaatg atcaacatgt tcctctaatag ttgctataa 360  
 atcaaaatat catcaaaata caccacaaca 390

<210> 809  
 <211> 394  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 809

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 aatttgtacc tgttgcaagg gtctgtggtt tgtgctcctc tgctgaccac catacagacc 120  
 tttgcccttc catgcagcaa cctggagcaa ttgagcagcc cgaagcttat gctgctaata 180  
 tttacaatag acctctcaa cctcagcagc aagatcaacc acagcaaaat aattatgacc 240  
 tctccagcaa cagatacaac cctggatgga ggaatcacc taatctcana tggctctagcc 300  
 ctcagcaaca acaacagcag cctgctcctt ccttcaaaat gttgctggcc caagcagacc 360  
 atacattcct ccaccaatcc aacaacagca acag 394

<210> 810  
 <211> 411  
 <212> DNA  
 <213> Glycine max

<400> 810

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ttctcagaac tccgcctaag tgaatgtacc tcttggtcgt agtctcttat tcctttggca 120  
 aactcatcac acaaattctc caaaaggatc cgtgcttttc tctctctttc aagatttctc 180  
 aaacaaccag agaaggaaga cttcacttca gaaagctccc tagccagctt ccgatgcagg 240  
 ctttctgaat gctgacgtaa cctcctctca tcttctagct cttccctgat tgattgaact 300  
 gcagctttta ttctaccatg ttctttgttc ttctaataa gtttgtaaat tgtaatttcc 360  
 tttatcaagt tctccacttc ctgcctattc atttgattct ctgtagtaa c 411

<210> 811  
 <211> 397  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 811

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 attgcgggac tcaatcagac atccgagtaa aaagttattg tcgtttgaat tggctcggag 180  
 cttcaacatt caatttcgag cgtctcgata tatgatggga ctcaatcaga catccgagta 240  
 aaaagttatt gtcgtttgaa ttggctcgga gtttcaacat tcaatttcga gcgtctcgat 300  
 atatgacgag actcaatcag acatccgagt aaaacggtat tgacgtttga attggctcgg 360  
 agcttcaaca ttcaatttcg agcgtctcga tatatta 397

<210> 812  
 <211> 339  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 812

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 atatatcgag acgctcgaaa ttgaatgttg aagctctgag ccaattcaaa cgacaataac 120  
 tttttactcg gatgtctgat tgagtcccg taaatatcga gacgctctaa attgaatgtt 180  
 gaacctctga gctaattcaa acgacactaa ctttatactc ggatgtctga ttgagtgccg 240  
 taacatatcg agacgctcga aattgaatgt tgaacctcta agccaattaa aacgacaata 300

aacgtttact cggatgtctg attgagtccc gtcatatat

339

<210> 813  
<211> 413  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 813

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taaaccttct tttgccacc atcttttgcc tccaaagtga tgggtgtacaa ggtaccagaa 120  
accacttgct gtttcgcagt taccaccttt tcaaactcca aaagggcatt ctgcatagcc 180  
atttacaatt caataaaaaat aaaatataat tcatatttac cacaaaataa aaagaaaata 240  
gaagcccgtt cgtgggttatt gaaattgacc ctaccaatct atttattcct tgacataatg 300  
gaaatgcaaa tttatcctaa caatcaatta atttttggtg aacaaaattt tggnggaggg 360  
gtaatgcccc agtacaagac agaanaagcc tccaagctca aagaacattc aca 413

<210> 814  
<211> 426  
<212> DNA  
<213> Glycine max

<400> 814

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aggcaaaaga tcaagaggag ttagtgggtt aaaaccataa acaacttcaa aaggagaaca 120  
attagtggca ttatgaacaa ctctattgta agcaaattca acatggggta aacaagcttc 180  
ccaagttttt aagttcttcc tcaaaactgt tctaagcaaa gttcccaaag ttctattaac 240  
aacttttggt tgcccatcgg tttgtggctg acaagtgggt gaaaataaca atttagtgcc 300  
caacttgctc cacaaagtcc tccaaaaatg gcttaggaac ttagagtcct tatcactaac 360  
aatgctcctt ggcaaaccat ggagtctcac aatctcctgt tggatcaagt ggcctcagaa 420  
taatta 426

<210> 815  
<211> 387  
<212> DNA

<213> Glycine max

<400> 815

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tgtgtcgata ccattaactg gtcacagggt ctttaagcagg ccgagggcat caatattgta 120  
tttggaaga cccaagagaa ggaaaaaact aaaacttcca tatggaagaa gaggtcgata 180  
ttgtttgatc ttccatactg gtatgatcta gatgtcagac attgtattga tgttatgcat 240  
gttgagaaaa atgtgtgtga tagtgtcatt agcacactgg ttaacattca aagaaagaca 300  
aaggatgggt tgaatactca ccaggatcta gtttagatag gtatacgaga ccagttacat 360  
ccaaggtctg atggtaacaa aatatac 387

<210> 816

<211> 375

<212> DNA

<213> Glycine max

<400> 816

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atatttaaca agaacattct atttcttgac attggtacct tggtaattat attatttctc 120  
ccatctctga tggaaagact ggaatctttc atgtgaatat catagccttt tttaggaat 180  
tgtcccaaac tcaaaatatt gttcttcata tttgggacgt agtagacatt tgatatgaat 240  
tcatgtcttg catccttcaa atggattatg atcttacctt tttcctttta taggaatatt 300  
ggaattatta ccaaattaag cattgccact tactgactca tcaagatcca cgaaacatgc 360  
ttcttttcca cacat 375

<210> 817

<211> 414

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 817

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cctcttgatg tcatttctca tcatttcacc ctttaatttg tcaatcattt accaccccat 120  
atttctgggt gtcatatatg tacattcgca tcctcacaa caaacaaaat tagaatctag 180

agcaatgaaa tgtgtttttg tgggatacaa caccactcaa aagggatata aggcctatca 240  
 tccatctaca aaaagatttt ttgtatcatt ggatgttaca tttcatgagc atgaaatggt 300  
 ttttcccttg aaaacacttc attcttcacc ttatagggga ggtgatttgg aggtgcagaa 360  
 tcatgataga cttgaccaag atatcagggt atttgatatt atgccaacaa caac 414

<210> 818  
 <211> 390  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 818

agctttagg gttaaagtct cactgtgtc acgtgtgat gcaacaatgg ttagtcgtgg 60  
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 tccatgccat atgtagcaaa gtcgttgatc ctgtcaagtt tgatgagttg gaaaatgaga 180  
 ccgcaattat actatgccag ttggagatgt attttcccc tgctttcttt gacatcatga 240  
 ttcacttgat tgtgcactcg gtcagagaaa tcaaagtgtg tggctctggt tatttgcggt 300  
 ggatgtaccc ggttgagcga tacatgaaga tcttaanagg gtatacaag aatctatatc 360  
 atccagaagc atctattggt gagaggtaca 390

<210> 819  
 <211> 416  
 <212> DNA  
 <213> Glycine max

<400> 819

gtgcttgtagc aatctccctc tttttgatga tgacaacttc tgaaatcaag aaacacacac 60  
 acacacactt tttcttagtc gatcactcac ataaatttcc attctcccc tttgtttttg 120  
 aatttatgct tcaacttaaaa ttaagttaat tactcatgtg agttcttgat ttaatcccta 180  
 tttctctccc cctttggcat caacaaaaag ccaaagtgcg taacaagtat gaaacatata 240  
 aatacaacta gtcattcaca caacaatcat ggaaaaaata taaactaatc ataccagaga 300  
 acagaaaaca attaagcaag atattttaac cattcatcaa acttagaaac gttaagaaat 360  
 ataaaaacca tacataattg acatacccca gaatagaaaa acaatcaaac agatat 416



<210> 820  
 <211> 388  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 820

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 ttcaaaaccc tttgaactac ttcacataga cttatttggg gcctctagaa ctatgagttt 120  
 ggggtggaat tactatggct tagttatagt agatgattac tcaagattca catggacttt 180  
 gtttttgaaa accaaagatg aagcttttga tggtttttgc aaacttgcca aggtcattca 240  
 aaatgaaaaa aggtcttaac attgtttcac ttagaagtta tcatggaggt gaatttcana 300  
 atgagtctct tgaaatgttt tgtgaagaaa atggaattca ccacaacttt tctaccctaa 360  
 gaacacctca acagaatggg gtcattgga 388

<210> 821  
 <211> 312  
 <212> DNA  
 <213> Glycine max

<400> 821

agcttatgct gcaaataattt acaatagacc tctcaacct cagcagcaaa atcaaccaca 60  
 gcagagcaat tatgaccttt ccaacaacag atacaacctt ggatggagga atcacccctaa 120  
 cctcagatgg tccagccctc agcaaacaca acagcaacgc tgctccttcc ttccaaaaag 180  
 ctgctggccc aagcagacca tacattcctt caccaatcca acaacagcaa caaccccaga 240  
 aacaaccaac agtttaggcc cctccacaac cttccctoga agaacttggt aggcaaatga 300  
 ctatgcagaa ca 312

<210> 822  
 <211> 707  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 822

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acaaaaggct caaaagtcaa gaacacttca tgataacaaa gatgatgatc tcaagaatca 120  
 aagaatgagt tcaagattga atcaagtaca cttcaaggat caagaggaaa gttgaattca 180  
 ataatcaaga atcaagtttc aagattcaag ctccaagaat caagatcaag attcaagact 240  
 caagattcaa gaatcaagag aagactcaat caagataagt attaaaaagt tttttcaaaa 300  
 actaagtagc acatgaattt ttctcaaaaa ccttttatca aagagttttt actctctagt 360  
 aatcgataac caaattattg taatcaatta ccagtagcaa aatttttttc aaaaagcttt 420  
 caattgaatt tacaatgttc caattgattt caaaatgttg taatcgatta caatgatttg 480  
 gtaatcgatt accagtatgt ttgaacgtta gaattcnatt taattgtgaa gagtcacatc 540  
 ctttcacaaa atagctttgt gtaatcgatt acactgattt gggaatcgat taccagtgat 600  
 agttttctgaa caaaatcaaa agatgtactc tttccatagt tttcaaggtt ttctaaaagt 660  
 cataactttt ccaaaggtt ttttaagttt tctaaagggtt ataactc 707

<210> 823  
 <211> 629  
 <212> DNA  
 <213> Glycine max

<400> 823  
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 aatctgcacc tgtcgccaga ctctgtggtt tatgtctctc taccgatcac cacacagacc 120  
 ttttcccttc tatgcaacaa tctaaagcca ttgaacaacc tgaagcttat gctgcaaaca 180  
 tctacaacag acctctcaa cctcagcagc aaaatcagcc acaacagaat aattatgacc 240  
 tctccagcaa catgtacaat cccggatgga ggaatcatcc caaccttaga tggtcgaatc 300  
 cttcacaaca gcagcaacaa caacaacaac cttattttca aaatgctgct ggcccaagca 360  
 gaccatacgt tctccacca atccaacagc aacagcccca gaaacaacaa acaattgagg 420  
 cccctccgca accttccctt gaagaacttg tgaggcaaata gactatgcaa aacatgcagt 480  
 ttcaacaaga gaccagagcc tccattcaga gcttaactaa tcagatgaga cagttggcta 540  
 cacaggtaaa tcaacaacag tcccagaatt ctgatagatt accttcttaa tctgtccaga 600  
 atccccaaaa tgggagtgcc attacattg 629

<210> 824

<211> 640  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 824

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ttgtcatgat gtagaattgt agttgattca gaggaatttt ttatttacat tttatgcata 180
caatgcaatt tgtcatccat actcctatct attcactgat aataataaaa aaatactcct 240
aagtcctatc tattcattta acataaaatt tctaaaacga gaattattag gttgccgttt 300
cggcggtttg gttggcttta ttgtgtcgtg caacactttt gtatgtcccc tcttcaatc 360
taagacgcca cgacatagat attcaattca gttttcactt taactttgta ttatactctc 420
aagtctcaat cttttaaatt atttttattt ggtgtataat gccagcaacg gaatttgaac 480
ttaagacctg aaaactactt gaatcctcca ccactagttt gccttttcaa ttatttgatc 540
tttatcttcc gctttcctct tatttctaatt attntttttc tttatatttc tttaaaaata 600
ttccaaatcc atttatgtat gatcaatgga acttaataat 640
  
```

<210> 825  
 <211> 632  
 <212> DNA  
 <213> Glycine max

<400> 825

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taaaccaaaa accctaataaa tgtgaaaaca cgtcttagaa ttctgcatag atttttagatt 120
aatatgcaat tttgaatatg tgatatatgt gaaaggaact tttaatcaca ccgtaagtta 180
taaaacaata ttatttagtt gaaagttata gaatggata ataattgtca atgttacact 240
ggtgtaattt gatccttctt tatatattaa agtttttagaa ctecccttga gtccaacatc 300
ttttatgtat gctcagtaag atatataaga tcaaagtgga catgcataca tatgtaaaaa 360
gcatagttaa gaggcgaaat tgaataatcc aaccaactca tttataaaag caacataaca 420
tatgttaca catatatatt acaacaaagc atataaagat gaaagataag tctaagctca 480
tgatacatca aaattccaat ttctcctctt tatgtaatca acaaatacag gtttgaaaga 540
  
```

tggaaaatga taaactatca ttatcattta tggctgctga ggtggatctt catttcgtgg 600  
 tgaatttga tgtggatgtt aaagttgac at 632

<210> 826  
 <211> 548  
 <212> DNA  
 <213> Glycine max

<400> 826

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 caacagtctc atctttttat ctgattctta aatggccatc aaaggcttat atatatgtga 120  
 cttgagacac aaatttgaag agagtcttca agaacaaaaa ggtcttatcc tcttaaaaag 180  
 caaaatagtt ttatctctctt acaaattcct tggccaatac acttgtgatt caataaggaa 240  
 ttatttgagt gctcaaaatg ttcaatctat ctctttcaag agagattact tcttctcttc 300  
 ttctttattc tgaaaaggga ttaagagacc gagggctctt tgttgtgaaa agaattctaa 360  
 acacaaagga aggattgtcc ttgtgtgttt agaacttggt aaaggaattt acaagatagt 420  
 ggaactccca agcggattgc ttggggactg gacgtatgca caaagggtgtg gccgaaccag 480  
 tataaatctg agtatgcact ttctcttccc ttaaaactct ttatttatta ttgatttata 540  
 ttcatatt 548

<210> 827  
 <211> 544  
 <212> DNA  
 <213> Glycine max

<400> 827

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 tccagcatgt atattgatgg aatttgtgca aaaaacagcc aagagcccca tatatagttt 120  
 atacatccat cctgccccat aaaacaaagt caaaatagtg aatctttaca gtaattagta 180  
 ataactcttc aagtatcatt tacataaagg tacaccatca atatggaagc tcagaaatga 240  
 cattatcttc aacaatcacc cttttgtcat atcgaggctg ttggacaata caattttcct 300  
 ctcttggctt tggatgaggg ggtgggaaaa ggattttaat gttccttttc accaatggtc 360  
 ttcatctatg gctttggttt ttaagtagtg atagtgttgt tgggttgggt tgaattgttt 420

ctgctgggat gttgcataat tttatcttact tttctgtccc aggagaaact acctcctgtg 480  
 gcttcttgta atacctctgg tactatgtat cttctattct ataaaaaact tcgtacccca 540  
 ttgc 544

<210> 828  
 <211> 536  
 <212> DNA  
 <213> Glycine max

<400> 828

tgcatgattt acagaatttg tcttttatat ttaatatctt gttttatctt ataaagaaaa 60  
 taattatctt tatcattgtt tgatataata tgggtctctat ttataaatca agacatctag 120  
 tttccttatt ttccaaaata agcaatttta gtctatcag ttgaccatcc aaagtctaata 180  
 gttgacttct atgtgacata ttggtgctga tatggaactt atgtatgcaa atgacatgac 240  
 acttatgtga aaaaaaatta aatgacgtga ataataaaaa aacatcttaa tatgaattaa 300  
 acttgtagacc ctttattcat agacaatgga ataaactact aatatactca atttgtctac 360  
 ctaaataat tactattatt ctctatgtat tcaatagtca agagttatat tttttttgca 420  
 gattatcaaa atctataaat taaaaatatt taatatataa atctttttta tcttataata 480  
 tataaattta tatgtttcta ttttgaataa tttaccatct aatttttatt tttacc 536

<210> 829  
 <211> 362  
 <212> DNA  
 <213> Glycine max

<400> 829

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 acaaacttct attgctgaa agatcccgca tttctcctgc tttccattgt tcttccctta 120  
 aacccttcca ccaatcatct gaagaagatt gtgtccact agcattgcct tccaatgatg 180  
 ttgaaaatca accagttatc tctcttttaa ccattctggg cactcattag gcctctgaat 240  
 ctactgatcc aaagctaagg tattaattca atgggcaggg ttgtctcttg atgacattac 300  
 atgggaagat tgtgaaaaac tcaagactgt ctatcacctt gaggacaaag tgtttttttg 360  
 at 362

<210> 830  
 <211> 496  
 <212> DNA  
 <213> Glycine max

<400> 830

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ttggtcctat tcaaatagcc ataacttttg acatgggggt actattgagg cccatgatat 60
atcgagagggc tcgaaattga aaaatggaag ttctcgagaa attcaaattg tcataacttt 120
taacttggat gtccgattca cgcacataat atatccagac acacaaaatt gaaaaatgga 180
attctcgata aattcaaattg ttcataactt ttgcctccaa tgtcagattt aggcgcataa 240
tatatcgaga cgctcgaaat taaacaagaa agctctgggc caattcacac ggccataact 300
tttgacatga gtgtatgatt gatgcccattg atatatagag acgctcgaaa ttgaataatg 360
gaagttctcg agaaattaaa attgtcataa cttttcactc ggatgtccga ttcagacaca 420
taatatatcg agacgcttga aacctaacaa ggaagctctg gtcccattca gagggccata 480
acttttgaca tgggtg 496
  
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<210> 831  
 <211> 576  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 831

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tacacctgtt gcaagagtct ggggtctatg ttcttctgca gatcaccata cagatctctg 120
tccttctttt gcagcaatct ggagtcaatg agcaacatga agcttatgct gcaaacattt 180
ataatagacc tcctcagcag caaaaccaac aatagcagaa taattatgac ctttcaagca 240
atagatacaa tccaggttgg aggaatcatc caaatttgag atggacaagt cctccacaac 300
aacaacagtc tgttctctct ttccaagatg ctgctgggtc aagcaagcca tatgttctc 360
ctccaatata gcagcagtca caataaagac aacaagagac tgaggctcct cctcaacctt 420
acttagaaga gttaatgagg caaatgacca tccagaatat gcaaattcag caagagacaa 480
gagcctccat ttagagtctg acatatcata tggggcagat ggctactcag atgaaccaag 540
  
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ctcagtccca aaattctgac aaattgtctt cacaaa

576

<210> 832  
<211> 389  
<212> DNA  
<213> Glycine max

<400> 832

tgaccaggaa ttatttgtat gggtcgaatg ttgaattccg gttgttcctg gcgcggagat 60  
gatggtacag cgggtgaacc ataatcgga gattcttttg gtgaagtagc catggaaaag 120  
cagagcgttt ggaatgattt cgtaaatttc agaaggctat tgggaaatgc tggataaac 180  
acgaatgcc aagcagatata aatttgaatg aggaatgtac agggtcgtgt gaagcaacgg 240  
tcaaattttc ctgggttcat tagagaacgc gctataaatg ttaagagatc cgttggggca 300  
ctttcacatt gctggagggtg ctataatccc tctagcacac aaatgcccat cttgccctc 360  
agtttttcaa actgatgcgc ctccaaagc 389

<210> 833  
<211> 194  
<212> DNA  
<213> Glycine max

<400> 833

agcttccgtt gttgtatttc gagcgtctag atgagttagg acagcgagtc ggacatcctg 60  
tgaaaagttg tgaccattct aagctctcga gcgcttccga tgaacaatgg ccagcgtcat 120  
gatcataaat gatgctgaaa cagacatccg agagatatgt gctgaccatt ctaccctgtg 180  
cagagctttc gctg 194

<210> 834  
<211> 610  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 834

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cctcaatttc attgtctccg tgttgaatgc attgctctct ctacagacat tatttcccaa 120  
atctcaacgg tgagaatgtg aggaaatgag ttctaaaggt ggtatccaaa tttcatgatg 180

atccaatggt taaaagggtt gggatcatat ttttactgag atagatttga gtgtatgcgg 240  
gaaagaaaag aagggttttg gagaggaaaa aaggaaaacg aatttgagag gaaaaaagag 300  
catagagacg tatcgtaaatt attaaaattg acctaatatg tctctattta tagctggact 360  
actctcagcc tattattttac tttatttttc tttattttat tattttataa aaagaaactc 420  
tattttactc tctcattgaa taaataacca attaanatat ctttatattt tctaaaacat 480  
cattttactc tatttgcttt ctaatgctat gaaaccatta ttttaattaa aaaaaaccct 540  
tttccctcaa ttatngtaat tctaaaaact ctataaattt tagataaatc tctattttatt 600  
ttacgaaaaa 610

<210> 835  
<211> 423  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 835

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cattaagatt ccttgggtga ggtgggacat agtctgccta cctaagagta aagggtgggtt 120  
agggatcaaa gatattgatta aattcaacga ggctttgctt gctaaatggg ggtgggagtt 180  
ggcaaataat cagaatcagt tgtgggccac aattctattg tgtaaataatg gtggttggag 240  
ggatttgatt tctcatagga actgcagttt agactctcct tgggtggaaag acctcaaggt 300  
tatcttcaag cagcagcaaa gcaacacaat ttgtaaaaat agctttattt aggccatang 360  
taaggacggt ccatggaata caaaccaagt acttattggc ttgacaacaa aaaaaacact 420  
cat 423

<210> 836  
<211> 470  
<212> DNA  
<213> Glycine max

<400> 836

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tactcctttt aagagctgga cttagggagg aggaaagaac aagcatagct aggttcctta 120



gtgggcttaa tatggaagtg agggacaagg ttgaactcct tccatatatg gacctagatg 180  
agctagtcca actttgtata agagtggagc tacaacttaa aagaaagtct tctttaaaat 240  
cttaaggctt tcaactcttat ccaaggaagg accaagccca aggaattttg gaggctgcac 300  
cttgaaaacc caaggaagat aagggtgaaga ccatagagaa atccaccctt aagactagtt 360  
cccaagaaag gactagcaac ataaaatggt tcaaatgtct tggcagaggt cacattgcct 420  
cttaatgccc cacaaagaaa accttgatta tgaggggtga agacatttat 470

<210> 837  
<211> 581  
<212> DNA  
<213> Glycine max

<400> 837

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ctctaagaga gctctgaaat ttgaagttta attttcaa atgcaaaagt taaaaaatgc 120  
acacacatga cctttattta tagcctaagt gtcacacaaa attggaggga aatttgaatt 180  
tatattcaaa tttcacttga atttgtggag ccaaaatttc actaattatg attaatgaat 240  
ttttgctatg ggtagccca ctaatccaag atcaagtcca agattaagtg tgcttaggtg 300  
tcatcagaca tgtaaagcaa gaaggacatg cacaaagtgt gactatatga tgtggcaatg 360  
gagtgtagca agcaaatgct cacctccctt tctaaaattt aattggattg ggcttctccc 420  
aattctatta aattttatttc tcaacacaca catcaaata tcaactaatg catgtgaaat 480  
tacaaaagta cccctaatac aaaaactagt ctaggtgtcc taaaatacaa cggttgaaaa 540  
atcctacttt tctaggttac ccttcttca ttatggatcc c 581

<210> 838  
<211> 506  
<212> DNA  
<213> Glycine max

<400> 838

attcaatggt tcagatgcag ctgcataagt ggagtctcat cctgatgatg ctcggtgata 60  
tatgctgacc catcctaaat aatttgctgt ggtaagtgga tgctactctt atgaacttgt 120  
gttccccctt taatataagg aaaatgcact tttcatgac attacatgtg ctgatttttc 180

aggttgatct tgatccttat ggctcacctt cagggtttct ggatacatca gatcactcta 240  
 ctgctgatgg aggtatgctg atgtgtactg caacaaacat ggctgtgctc tgtgggggaa 300  
 atggggaggt ctgctattca aagtaatgtg cataactctta ttcacaatca actttcattt 360  
 tgtttgattg gtggactgaa cttttaacaa ctgctattca tactacatat ggatcatacc 420  
 cattgagagg gaaatcttgc ccttcaaagt gctttgagga acaagccggc ctgcattgac 480  
 gtatggtata taacgcagaa actctt 506

<210> 839  
 <211> 512  
 <212> DNA  
 <213> Glycine max

<400> 839

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 cgtcttgtaa taacaaagtc attgacattt ggcatttcca tttgggtcat ccttcatatg 120  
 ataggatgca attgttctaa caaacttata ctatgttgac ttgtgataaa acctttgttt 180  
 gcgatacttg ccttagagcg taacagagaa aactttcatt tcccaatagt gactcataag 240  
 cttctagtcc tttcaatttt atacatgtag atatttgggg tccttggtgcc acaactgctt 300  
 tgaatggaca taagtatttt cttacaatta tggatgatca tactaaaatg gattggattt 360  
 ttataatgac ttcaaaagtt gagactcaaa ctcatctaca agcctttggt gcctatgttg 420  
 agaggcaatt taatacaaaa atgaaagcta ttcgatcaga taatgggtgct aagtttatca 480  
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<210> 840  
 <211> 572  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 840

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 atttccaaga gtcacatctg ttcaaagtat tttttaatgg ccatcaaagtg tctatttata 120  
 tgtgacttgg aacacgaatt tgcttagagt tttttagaac aaaaagggtct tctcctctca 180  
 aaagaaaaat catcttatcc acttaaaaaat tccttggcca atacacttgc aattcaataa 240

ggaattatatt tagtgctcaa ttgttcaatc tatctctttc aagagagatt tctttttctc 300  
 ttcattcttat ttctgaaaag ggattaagag accgaggggc tcttggtgta tagcaatcta 360  
 aacacaaaag aggggtttgtc cttgtgtggt ttaaaacttg taaagggctt ttgcaagata 420  
 gtggaactct caagcgggtt gcttggggac tggacctang cacaaggggtg tggccaaact 480  
 tgtataaatc tgaatttgca atttttttcc cttgaacctt tttattgggt aatgcttatt 540  
 gcttctattc agaaagttaa aattcgcata at 572

<210> 841  
 <211> 603  
 <212> DNA  
 <213> Glycine max

<400> 841

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 ttaatattac gagtaaataa catatacaaa gatgattaat ttttacataa tcaatcacat 120  
 attatcatat aatgtaaatt gattgatagt aataataaaa atataaaatt catattaatt 180  
 atgatttaag ttctaaacat tatagatgat atgataaaaa aaatgtgtat aaaaatgaga 240  
 aattaagcaa taatgagaga aaataaaatt gaataatgaa agagagaaaag agtgtgaccg 300  
 tcacagcttc caatagattg gtggtgtcgt gcaagtactt gaggacccat gttagaacac 360  
 ttgctgtggt gtcattgtgca gcaaagatga caccaatgag attatcaaca acttgagaat 420  
 ctgtgtgctg ctgatagtac atcttgttct tctcacctcg agcttgcaat agaactccca 480  
 atagcccccc accataattt aacagattat agactcttat aattacattt caacagaaaa 540  
 acccaagtca gtgtgaccat caacaaatgt tacatattat atataaccag tgctggataa 600  
 aaa 603

<210> 842  
 <211> 606  
 <212> DNA  
 <213> Glycine max

<400> 842

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 ttctattttc agattgggaa tgctctaac agcacttttg tcaaggattt tcttcatgcc 120

tcttaagtgc agatgtccca acctttgatg ccatattctg acttcatctt ctttggagga 180  
 taaacatgtg gaggagtacc tggtttcttg ggggtgccat aggtaacaat tgtcctttga 240  
 tetgctgccc tctattagaa cttcactctt ctcatttgtc accaagcatt ctgactttgt 300  
 gaaagttaca ttgaatcctt catcaaacag ctgactgatg ctgatcaagt ttgcagtcag 360  
 tcccttcacc agcaatactt tgttcagact aggaagtcca tcatgaacta cctttcccat 420  
 tccaatgaac tttccttttag agccatctcc aaatgtcaca taactagtgg agccccggctc 480  
 aatgttcacc aggaattctt tgactcctgt atgtggtggg aacaaccgct atctaagtac 540  
 ccatcttctt taactgatgc tctaattggag gatgaacaac aagaatgaag tcttgtgttt 600  
 aggaac 606

<210> 843  
 <211> 605  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 843

tattctttat ctagagtagt tgagcacaac aacttactac tgacatatat tgcactttag 60  
 tagtggacaa tgtagttgag ccttgcactc tgcattttca tgttactaag ttagcaccga 120  
 taaagtaata gttccacta gtgcttttct tttcaacttt atcaccaaca tagtcaacat 180  
 cataatagct tgtaagtctg aaactttctc ttcttttgaa cataagacca agattagaag 240  
 ttccaattaa atatctacaa atatgtttaa ttttagttag gtgaacttcc ctttgttctt 300  
 tttgaaatct tgcacataga taaacattga acataatatc agaaatggat gcagtgagat 360  
 agaccagtga gttgcatcca ctttttttga tccttgtcca atccaaggta tgtcatgggtg 420  
 tgcattggag tcttcatttc ttttcacgc ccatgttgaa tttcttcagc aattctttca 480  
 catacttagt ttgatgaatg tagatgcatt tggctttttg gtttatttgt aatccaagaa 540  
 agaatntcat ctctcccatc atgctcattt caattttgtc tgcataagca tagaaaaatc 600  
 ttcac 605

<210> 844  
 <211> 529  
 <212> DNA

<213> Glycine max

<400> 844

agcttgacag tgtttgatgc atcaggggaac aatttcactt tagaagtggg tcctaattgg 60  
attcctaatt ttcaacttac ctatttggat gtgacatcat ggcagatagg tcccaacttt 120  
ccgtcgtgga ttcagtcaca aaacaaactt caatatgttg gactgtctaa cacggggatt 180  
ttagatttta tccccacttg gttctgggaa gcacattctc aggttttgta tttaaacttc 240  
tctcataatc atatccgtgg tgagcttgtg actacaataa aaaatccaat atctatccaa 300  
actgttgatc taagcacaaa tcatttatgt ggtaaattac cctatctttc aaatgctgtg 360  
tatagggttag acctttcaac caattcattc tctggatcca tgcaagattt tttatgtaac 420  
aatcaggaca aaccaatgca attagaaatt ctcaatcttg catcaaataa tctatcacga 480  
gaaatacctg attgttggat gaattggcca tttctagtgg aagtgaatt 529

<210> 845

<211> 548

<212> DNA

<213> Glycine max

<400> 845

agcttgtaga actccccaaa agaaaatcag ctattggagc taagtgggtg ttcagaaaca 60  
agttggacga aataggtaaa gttgtgagga acaaggctag gcttgtagcc aaaggaaact 120  
cacatcagga aggtataaat tatactgaga cctttgcttt tgttgctcgt ttagaggcaa 180  
tacggattct actatccttt gtttcccatt atggatgat gttgtatcaa atggacgtat 240  
aaagcgcatt cctcaatgct attattaagg aagaattcta tgtggaacaa cccctgggt 300  
tttagagtgc tatttaccct catcatgttt tcaaacttaa taaagctttg tatgggttaa 360  
agcaagctca ttgagcttgg tatgaaaagt taagtccctt cttactgaa aatgggttta 420  
taaaacggaa cgtaaacact attttttttt gcaaagatta tataaatcca ttcctaattg 480  
tccagatata tgacgatgat atattattta ctgcttctaa tgactttttg tgtgaggact 540  
ctttcaaa 548

<210> 846

<211> 589

<212> DNA

<213> Glycine max

<400> 846

agcttgaaga caagactata cgaggtatct tccttgggta tagcaatata tetaagggct 60  
accgtgtcta caacttgcaa actaagaaac tcgtcatcag tcgagatggt gaagttgatg 120  
aatatgcttc atggaattgg gatgaaaaa aagtggagaa gaacgttctt ataccgctt 180  
aactacctca agaagaatat gaggaagaag atctaggtga accaccttca cctacatcac 240  
aacaacaaga tcaagaacta tcataccag agtctactcc aaaacgagta agatctttgg 300  
tggacatata tgaaacttgt aacttggcca tacttgaacc tggaagcttt gaagaagcgt 360  
caaagcacga agtatgggtc aaggcaatgg aagaagagat acagatgata gagaaaagca 420  
acacatggga gttagtaaata cgccccatg gaaaagatat cattgggggt aagtgggtct 480  
ataagacaaa agctaaacct tgatggcacc atacagaaac accaagcgag gctttagct 540  
aaaggtttct catagcaacc cggaattgac tacaatgaga catttgccc 589

<210> 847

<211> 525

<212> DNA

<213> Glycine max

<400> 847

tggtgcatat gatttatatg atctactta cagggggctt gttataaact tgaattgtca 60  
tgaaccaact cttgtcaaag aattaactgt taggctgtta agtgaagaca cacatggctt 120  
tatgttatat atctaacaat aatgaatcta ttaatatagc ttacaagttc attatgcata 180  
caattttagg tccaagtcac tgcataatatt ttcataacg aaatcaggac ctgcatattc 240  
attattagat tcatatataa atttttgtcc gtacttccat agtgtccatt gacacatttt 300  
tagcatatga ttctcttttc tatctttttc tccacaacaa tgagcccaag gagcagagtt 360  
ttcttatgag catcaatcaa gaacgttcaa ttatttatat tacatgatag acaaactaaa 420  
tttagtttat taatattgaa cacttttttg gataatagaa ataattttaa tactttaacc 480  
aggtcatttt tatttgtctt agaataggca ttatgtgcac tttct 525

<210> 848

<211> 468

<212> DNA

<213> Glycine max

<400> 848

agcttctctc ttttcttggt taattattat attttgttt taagtcttgt attttgctat 60  
gtttttatgg catttgaaca cttagtattt ctttttaata tttgttgagt atgactgaac 120  
atgataatta tatttacttg cttttggttg tttatggta tgaattttaa acttaattat 180  
tttgataata tatgatcagt ggtatgtttg atcaaatatt aattatgtta tttgataatg 240  
tggttttttt tataatattg atctatttat gggtcttgct atgatttggt ttatattttt 300  
ccatgaatga ttgtatggat gcttaagtta tatttgtatg tttttaattt gttacgcact 360  
ttggcatttt gttgatgcc aagggggaga aaaatatgga ttaaatcaac aactcacacg 420  
agtaatcaac ttacttttta gagaagcatt aattcaaaaa caaagggg 468

<210> 849

<211> 572

<212> DNA

<213> Glycine max

<400> 849

agcttctcat ttgatctaac agagaaggag catgcaacct atttcaactca agtcacaccc 60  
acggaactct ggcacaagag acttgggtcat tgccatcttg aaagaatgct aaacatgaaa 120  
aaaaggacat gtcaaaagggt ctaccaatac tttctgatag tttgccaaac tataatgctt 180  
gtcaatttgg taaacaaaat agaaaatcat tccccaaatt agcttggaga acctctcaaa 240  
agttgcagct aattcacact gatgtggcag gacctcaaag aacaccatca ctacaaggta 300  
gtctctactt tattcttttc atagatgact ttacaagaat gtgctggatt ttttttcttg 360  
aaattcaagc atgaagtggc tgaagttttt tgtaaattca agaaaatggt ggaaacttca 420  
agggacctga agattcaatg aaaatgggaa agaatatcca tccccataat tatttacttt 480  
ggggaacacc ttggtttgaa tattaactca cagcccccta cctctgaac attggggatt 540  
ttgaaggatt aacaattcat tgttgggaag gc 572

<210> 850

<211> 528

<212> DNA

<213> Glycine max

<400> 850

agcttgaagg caaactggat gcgttgatca acttggtaac ccagctggcc ttgaatcaga 60  
aatctgtacc tgctgcaagg gtttgtggtt tgggctcctc tgctgaccac catacagacc 120  
tttgcccttc catgcagcaa cctggagcaa ttgagcagcc tgaagcttat gctgcaaata 180  
tttacaatag acctcctcaa cctcagcagc aaaatcaacc acagcagagc aattatgacc 240  
tttccagcaa cagatacaac cctggatgga ggaatcacc taacctcaga tggcccagcc 300  
ctcagcaaca acaacagcag cctgctcctt ccttccaaaa tgctgctggc ccaagcagac 360  
catacatcc tccaccaatc caacaacagc aacaacccca gaaacagcca acagttgagg 420  
ccccccata acctttcctc gaagaacttg tgaggcaaat gactatgcag aacatgcaat 480  
ttcagcaaga gaccaaagcc tccattttaga gcttaaccaa tcagatgg 528

<210> 851  
<211> 589  
<212> DNA  
<213> Glycine max

<400> 851

agcttcttag ttccagatga tgcagatggg ttgtagcta cctcatgcac tcctctaattg 60  
actatggcat catttctggc gctaaactgc tgggagttgg aagccatctt ctcaattaaa 120  
tttctggctt cagcaagagt catgtctcca agggctccac cactggcagc atctatcata 180  
cttctctcca tattactgag tccttcataa aaattttgga gaagaagcta ctccgaaatc 240  
tgatgggtggg ggcaactggc atatagtttt ttaaattctt cccagtactc atacaggctc 300  
tctccactga gttgtctaata acctgagata tccttctga tggctgtggt cctggaagca 360  
gggaaatttt ttttctaaga atactctctt aaggctcatc cagcttgtga tggaccttgg 420  
agcaaggtaa tacagccagt cctttgccac tccttctaata gaatgaggaa aagccttcag 480  
aaatatgtga tcctcttggga catctggggg ttccatggtg gagcagacaa tgtgaaattc 540  
tttcaaatgt ttgtgcgggt cttcacctgc aaggccatga aactttgga 589

<210> 852  
<211> 603  
<212> DNA  
<213> Glycine max



<400> 852

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aagaatgaat ttgactaga aaattaatca catatttatg tttatcttta catttatata 120  
catacaggac atatcatatg agagaaatat atatttatatg agagtggagaa aattaaatct 180  
aatccatata actaaaatat tgatcatcat catttaatgt catttgaccc cttaagaaat 240  
catgtgactt ttgacatta aatcttaatt ttttatatat gattatataa ttcaaattta 300  
atcatttcac tctcatataa tatgttttct cttaaagat atgtcatata tatataaaag 360  
gagaagggtg ggatattttt acatataaaa ggagatgggtg aaggtagttt tgaaagaaaa 420  
tcaaattcat gaggatcact ttaatttatg agaaacacat ttcattatgt taattgtcac 480  
ctaattgtaa ttcaagattt ggggttaaac accagggaat aaaaataaaa attttaatat 540  
attatgtact taaaacaaca aaaaaattat ttggactca gaaacaaat cccttcttta 600  
tta 603

<210> 853  
<211> 539  
<212> DNA  
<213> Glycine max

<400> 853

tcttgaacgt gatcaatata tttattggca cagaataaag gatgaagatg tggttcgtga 60  
tatcttttgg tgtcacctg attcactgaa gttagtcaac gcatgtaatt tgggtgtttt 120  
gatagacagc acctacaaaa caaaccggta tagactccca ttgctcgatt ttgttggggt 180  
gacaccgact gggatgacat tctctgccgg ttttgcata gtggagggtg aacgcgttaa 240  
taattttgta tgggctttac aacgcttctg aagcctttt ttaaagcgtg atgccctccc 300  
tgagattatt gtcactgata gagaccaagc attgatgaat gtagtgaaag atgtattccc 360  
tgaatgcaca aatttgttgt gcatctttca cataaacaag aatgtgaagg ccaaatgtaa 420  
atcactaatt gcgcaaaaaa atgcttgga ttatgtcatg gattgctggg gatctctgac 480  
tgattgtcct tcaaaacaac agtttgatga atgccttgaa taagttcgaa atagcttgc 539

<210> 854  
<211> 558  
<212> DNA

<213> Glycine max

<400> 854

tgtgcatggg aaaatagttg tttgtgaaag aggtaaaaag ggaataacta agatgggaga 60  
ggtagtgaag gtggcttatg gggcgggaat gatagtactt aatactaaaa atcaagctga 120  
agaaatttat gttgatcttc atattttgct agccacttcc ttaggagcct ccagtggtaa 180  
gactattaag acctatattc tatctgataa gaaaccaaca acttcaattt cctttatggg 240  
aataaagtat attgacctg caccagtaat gagagcattt tcttctaaaa gaccaagtat 300  
agtgggacta gatgtgactg acccaactgc gaatatcttg gctgctcggc cactaaaaac 360  
taaccaagt tttatcatga atgacataag agaagtacta ttaacattc tcttaggtgc 420  
ttcaatgtct atgcctaag ttagtggcat agcaacactt tttaaatatt tgcacactga 480  
ttggtccct gcagctatca aatctgctt gatgactact gcttacacat tgaacaacag 540  
aggagctgca atttcata 558

<210> 855

<211> 619

<212> DNA

<213> Glycine max

<400> 855

tctagaatct agtgttttgc gaaatcaaatt tggaatttgg aacagtgcga cgttgctcat 60  
gactttgagg tccctcaatt aaagggttag tgtaacattt gagtgagtaa tttcagtgtg 120  
aactggaaaa ttaaatgtat agtatacttg tatacattta gttgtaattg tatagaattt 180  
ttagtaaaag agaaccaaaa ctaatataag attaccagaa atgttaaaac taaaatattt 240  
aaaatgcaaa acacaagata caacatttca cttgttatta aataattatg aacaaagtca 300  
ctgagttgaa aaccaactct aattatacat aacacaactc aacattcaaa gttgtaaaac 360  
cccccaaaag taaaacataa gtcaccttg aaaagaataa atgaaaatca aatctaataa 420  
aattgaaata cgtaatatat tatatataat aaaattgtct agttcaaaaa tgatagtaga 480  
atcattccca acatcatttc tcacaaaata caccaaagag ttataaacat aagtttatag 540  
agattgatag agtataatgt acttaaatca caaacaatg cagaatagaa cagagttaga 600  
ttttggattt gggaactca 619

<210> 856  
 <211> 503  
 <212> DNA  
 <213> Glycine max

<400> 856

agctttatca aatggatgta aaaagtgaat tctcaaatgg ctttattcaa gagaaagtat 60  
 atgtagatca accccctgga ttgaaaact cagacaagcc caatcatgtt ttagattaa 120  
 aaaaggcttt atatggctta aagcaagccc ctagggttg gtatgagcgt ctaaataagt 180  
 tccttttaga aaaggatttc tctagaggcc aagtagatac tactcttttc ataaagagaa 240  
 aattacatga tattttattg gttcaaattt atgttgatga tattattttt ggatctacta 300  
 atgaattatt gtgcaaggaa ttctctcatg acatgcaaaa tgagtttgaa atgtcaatga 360  
 tgggagaact taatttcttt ctggattac aaattaaaaa aaccaagact ggaatttttg 420  
 tcaatcaatc caagtactgc aaagagttaa ttcacagatt caggatggaa aatgctaagc 480  
 acatggctac accaatgagc act 503

<210> 857  
 <211> 401  
 <212> DNA  
 <213> Glycine max

<400> 857

agctttgagc caattcaaac gacaataaat ttttactcgg atgtctgatt gagttcaata 60  
 atatatcgag acactcgaaa ttgaataccg aagctctgag caaattcaaa agacaataac 120  
 tttttactcg gatgtctgat tgagtctcgt aatatatcga gacgctcgaa attgaatacc 180  
 gaagctatga gcaaattcaa aagacaataa ctttttactc ggctgtctga ttgagtctcg 240  
 aaatatatcg gaacgctcga aattgaatat agaagctctg agcaaattca aacgacaata 300  
 actttttttt cggatgtctg attgagtcgc ataatatatc ggaacgctcg aaattgaatg 360  
 tagaagcttt gaaccaattc aaacgaccag aactttttac t 401

<210> 858  
 <211> 455  
 <212> DNA  
 <213> Glycine max

<400> 858

agcttgtaat cgattacaca catactgtaa tctattacca gaggagattt tcagaaaata 60  
ttctcaacag tcacatcttt tcatttggtt cttgaatggg catcaaaggc ctatatatat 120  
gtgacttgag acacaaattt gctaagagtt tatctgaaca acaagtgttt attctctcaa 180  
aaagcaaaat cgttatatcc tcttaaaaat tccactggcc aatgcaattg caattcatta 240  
aggaatcatt tgagtgtca aattgtaaaa tctatctctt caagagagat tcattcttct 300  
tctctttcta attcactaac ggattaagag accgcgggtc tcttggtgta aaagaattct 360  
aaacacaaag gaaggaattt ccttgtgtgt ttagaacttg gaaaaggaat ttacaagata 420  
tggttaactct caagcgggtt gctatgggac tggac 455

<210> 859

<211> 620

<212> DNA

<213> Glycine max

<400> 859

agcttgtagg taaactagat gccttggtta acctggtaac ccaactggcc atgaataaaa 60  
aattttcacc tgtcgccaga ctctatgggt tatgctctc tattgaccac cacacagacc 120  
tttgcccttc tgtgcaacaa tctgaagcaa ttgaacaacc tgaagcttat gctgcaaaaa 180  
tctacaatag acctcctcaa cctcagcagc aaaatcagcc acaacaaaac aattatgacc 240  
tctccagcaa caggtacaat cccgggtgga ggaatcatcc caaccttaga tggctgaatc 300  
cttcacaaca acagcaacaa caacaatagc cttattttca aaatgctgct ggcccaagca 360  
gacatacgtt cctccaccaa tccagcagca acaacaacaa caacaacccc agaaacaaca 420  
aacagttgag gctcctccgc aaccttcct tgaagaactt gtgagacaaa tgactatgca 480  
aaacatgcag tttcaacaag aaaccagagc ctttattcag agcttaacta attaattggga 540  
caattggcta catagttaaa tcaacaacag tcctaaaatt ctgacagatt accttcttaa 600  
tctgtccaga aatcccaaaa 620

<210> 860

<211> 532

<212> DNA

<213> Glycine max

<400> 860

agcttctggt gggacatctt gacttgcttt ccaatctgac attcaccaca gattctgcct 60  
tcttctatct tcagattggg aatgcctcta acagcacttt tgtcaaggat tttcttcatg 120  
cctcttaagt gcagatgtcc aaacctttga tgccatattc tgacttcacg tttcttggag 180  
gatagacatg tagaggagta gctggtttct tgggggtgtcc ataggtaaca attgtccttt 240  
gatctgctgc ccttcattag aacttcactc ttctcatttg tcaccaagca ttctgacttt 300  
gtgaagttta cattgaatcc ttcacacac agctgactga tgctaataca gtttgacgtc 360  
agtcccttca ccagcagtag tttgttcaga ctaggaagtc catcatgaac tagctttccc 420  
attccaatga tctttccttt agagccatct ccaaagtca cataactagt ggagcagggc 480  
tcaatgttca gcaagaattc ttgactcct gtcatgtggc tggaacaacc gc 532

<210> 861  
<211> 591  
<212> DNA  
<213> Glycine max

<400> 861

tgactcattt atttaaaca acctaattat aagcttgagt ttggcttttt tgaaaaaact 60  
aaagcatgag cttgagcttg aatgggttag ctcatctaaa atttgattat tttttaactt 120  
gcaaaaaaat tattaaatca ttttttaact gtcaatttat tatttaataa aatattttaa 180  
tactatgtaa taatctacaa ataaaatatg tgtaaacaat atgatatgat attgtagaat 240  
ctatgtaatt ttaattttta tttctatct ataaacgagc ttttatgag ttattaatgt 300  
caagcttgta aaacttaggc ttagcttgag tttgtttatt tcattaaaca aacgagtttg 360  
atggagcatt tagcaagttg aactcgagaa gttcacgaat aacttgactc atttacatct 420  
ctatctagaa atacttttga atttttaatt aagtgtcgca ttatatatag attgttaaca 480  
tagtggaat aaatgacatt tgtttatagt gataactatt atttatggtg atgaaaattg 540  
aatgaaaaat aattttcatt tatagaaata agaaatatta ttttttatat t 591

<210> 862  
<211> 501  
<212> DNA  
<213> Glycine max

<400> 862

agcttctgac gagtgattat cgatcctctc atcaccttca ataatatctt tgactatata 60  
tataattgat attttttcac aataaaccac taaaaataat ataacttata gcacataatc 120  
aaaacactac gatttgaaac attttttcag caatttattt tateccgtga ttttaaactg 180  
ctaccaattt taaatatattt tgttcacctg ttactatagt ctttatttaa agaaccttgc 240  
tatttggtac gaaatatata cgctagaaag tagctaagac atacctgaac caatcacggt 300  
tgtatggggt cacttaaaat ctgatgatta atattttttt cttcaaaaat acaatttgta 360  
actagtatgt aattttttcg tacaatatc atctttttcg ttattataaa tactcaagga 420  
caaatatggt acatcataaa tgaagcccac ctctgtcagt ataataaaaa attctaacac 480  
aagtgaataa gatcgaggac a 501

<210> 863

<211> 617

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 863

tcacagcaaa tgatagaatg tctatagttt tatcatttga caatttattg ttatttatatg 60  
tcttatectt catatatata gactcttttt ttcatcttt ttcaactgtg aatttttaca 120  
taattcataa attttatttg ataccttgca tagcattgca tttagcaaat acaatttaac 180  
atgcttggtt tataagtatt gacacaaaaa aggcttatga aaataccttg tattgcatgt 240  
tgctagggct tattaanaa atcaaataat ttacatgtg tctgtgaaat cagacttatt 300  
aatgatgca taaattatgt aactatcatg tctctcgttg atgttgctaa aaaaattggt 360  
tatgaagtat agggattaaa agtgcatttt gcaaaaagtt taaagatcga gaacataatt 420  
aaccattaa attattatca ataaaataac cttaaatnta aaatacaaac ataggtagat 480  
gtaantata ttatcaatta ttgataaaaa aaaatataat aatgtttatg tgaacaaaat 540  
atttttttga ccaaaaaata aacgcattgt ttttatattc aaatcattt tacagttaaa 600  
tatttaatgg ttataaa 617

<210> 864

<211> 377

<212> DNA  
<213> Glycine max

<400> 864

ttgacagaaa tccgacatcg taacattgta aagttacatg ggttttgttc acattcacia 60  
tactcatttt tgggtgtgta gtttctggag aatggcgacg tcaaaaaaat ttttaaagat 120  
gatgaacaaa caattgcgtt tgattggaat aaaaggggtg atgttgtaa aggtgtagca 180  
aatgctttat gctatatgca tcatgattgc tcacctcaa tegtcatcg tgatatatca 240  
agcaagaatg ttcttttga ttccgattat gtagctcatg tcttagactt cggaacagcc 300  
aaatttttta atccagattc atccaattgg acctccttg cagaaccttt gatatgctgc 360  
tcccggtaa tttcctt 377

<210> 865  
<211> 612  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 865

tcatgggaga gtcaaagatc aaattgagag gaaaaataat ttctatgcta aacaagccaa 60  
caaaggaaga aagaagggtg tcttcgaacc cggagattgg gtttgggtgc acatgagaaa 120  
agaaagggtt ccggaacaga ggaaatcaaa gtttcaacia tggggagatg gaccatttca 180  
agtgttgaa agaataatg acaatgctta caaagttgag ctgcccgtg agtataatgt 240  
tagttccacc ttcaatgtct ttgatttacc tctttttgat gcagatgtag aatccgattt 300  
gaggacaaat ccttctcaag agggagagaa tgatgaggac atgaccaaga gcaagggcaa 360  
ggatccactt gaaggacttg gaggacctat gacaagggct agagcaagga aagccaagga 420  
agctcttcaa caagtgtgt ccatactatt tgaatacaag cccaagtctt aaggagaaaa 480  
gtccaagggt gtgagttgta tcatggccca natggangan gactaaatga caccactttg 540  
tctcaatttt tagagtgttt agtttgtcta aataatggcc caatccttgt aaagttgctg 600  
acaaaaata tg 612

<210> 866  
<211> 555  
<212> DNA

<213> Glycine max

<400> 866

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gcttccggtt ttcaatttcg agcgtctcga tatattatga ccccgaaatcg gacatctgtg 180  
tgaaaacgta tgaccattcg attttctcga gagcttccgt tgatcaattt cgagcgtcta 240  
gatgagttat gtccccgaat cgaacattcg agtgaaaact tatgaccatt cgaatttctc 300  
gagagcttcc gttgttcaat ttcgagcgtc tcgatatatt atgttcccgga atcgggcac 360  
cgagtgaata gttatgacca ttccaatttc tcgagagctt ccgctgttca atttcgagcg 420  
tctcgatata ttatggcccc gaatcggaca tccgtgtgaa aacttatgac cattcgaatt 480  
tctcgagagc ttccggttgtt caatttcgag cgtgtagatg agttatgtcc tccaatggac 540  
attgggtgaa aagtt 555

<210> 867

<211> 554

<212> DNA

<213> Glycine max

<400> 867

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agatgttcaa agtttggcta tgaagatggt tcaaactgag aaacatttgg tatttccatt 180  
ggtttataaa cttattgagc tagctttgat attgccggtg tcgacagcat ccgttgaaag 240  
agctttttca gcaatgaaga ttatcaagtc taaattgcgc aataagatca acgatgtgtg 300  
gttcaatgac ttgatggtat gttacaccga gcgggagata ttcaagtcac ttgatgatat 360  
tgatattatt cgaacattta ccgcaaagaa gtctcggaaa ggacacttgc ctcgtaattt 420  
tatttaaccc gctattgtaa gaatatgctt atctctttta ttttaaacta tatttttggt 480  
gacaaaatga cgagtctctt ttattttgat tgattactat ttacatatta tatacaaggt 540  
gaatttgcta tctt 554

<210> 868



<211> 615  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 868

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acctcattaa ctatcattac acccgggagg atatgtctgc ctttgaaaaa aacaatttgt 120
ctttaatcaa ttaaatagaag cagcacaaga gccagcctat tagccagact ttggacatta 180
ttttgtagac acaccctatg agagagatgg gtctatagtc attaagagat tgggggctat 240
tggttttggg gatgagggct atgaaggatg cactacttcc tttggggaat ctgccattaa 300
tgaataattc atcaaagaat ctgataaaat taggttttag agtttcccaa aactgtttga 360
tgaaattgaa attcaaacca tccgagccaa gactttttatc tcccccgcaa gcccaaactg 420
cagacttgat ttccagctcg gtgaatctat caacaaggct ttctttctgc ctttgatcaa 480
gggaagagaa ctagatccct tcaaggttgg tctgcaagga ttctactttg agaatctttc 540
tttanagtgc tgaagaactg caatcttgac actggttaggg tcantggatc catcctccat 600
caatacacag acctt 615

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<210> 869  
 <211> 558  
 <212> DNA  
 <213> Glycine max

<400> 869

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caagatatata acatgaatac aaataagaaa ttgtaaacta cactacttga attcctatta 120
tatacaacca gcataccgag ttgaatttgg ataatttctc cccaccacca acttcaacct 180
caaggggaga attacaagaa caaatggttt agtgtcaaaa aagatagcac acagacaaat 240
taaaaaagat agcctgaaca gctactggag ttctatgaat atgtcttggc acttaagatg 300
acctgccata cttgttaact gaattcatat gattcatcta catctgcaag ttgtttggtc 360
ttgaaaattg attatgcatg gctgagttaa caacaagggt attatcacia ccaacaaatt 420
gctgactaaa tgccggagaa acagtatcag gcagaatagg tagctcagag ttaccaattg 480
tttgggtatc agacctatta cggataaaac aaactcttgg ctaaaagtat ctatttgagt 540

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gttaacattt tgattaac

558

<210> 870  
<211> 636  
<212> DNA  
<213> Glycine max

<400> 870

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tttactaatt tacgggatca aaccacgcgg tgatgatatg gtttgccttt aagaaagtca 120  
aaaagtatat taccagtttg ttggaaatcc ccattggggc ttctgttggt aaaacgtgac 180  
tccaagttct ttcaaagata aatgataaag tgatattctc atggaacatg agaaattatt 240  
gactattatt ttgaatgata aaaattatct ccgtaaaata ttaaaattta atcaaacata 300  
ttaaaagata aatagaatgt gatgggatta aaacaagaaa aagggtttac agcctaaaaa 360  
aagttacata gtatgtgttt agtcctttca aaatgagtga aatttaactt tggtttctct 420  
aaatttcttt ttgaatttta ttcttaagaa atataatttg gcctattctt atgaatttaa 480  
tggttatata ttattcatgt aaaacctaac tctatatcat tattgaatca ttagtcatca 540  
tttaaattac tttaggacaa ttattttgaa aataataaat ttatcatact taatttaaaa 600  
ttattttaaa agtaacccaaa tttatcattg tgaatt 636

<210> 871  
<211> 463  
<212> DNA  
<213> Glycine max

<400> 871

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tccttcctga agccgagctc ccagcctggg ttgtttgtta cattcctgga atcatgtccc 120  
tcctaagtgt tctcccagct ccacgggcat ttccatttat agttccttac cttctatttg 180  
agaacactat gtcggtaact aaatttaatg ccatgatatc tggattatta cgctttggaa 240  
gttcttacga gtgggtggtt acaaaaaagt tgggaaggct atcagagaca gatttggttg 300  
cctttgagaa agaagctgaa cctctaagtc gatctactag tcttcataga tcatcctcag 360  
attcaggcat tgaggaacta agcaaaactag aattgtcaaa gaaaactggg aagaccaata 420

aaaatcgtct tttcaagaaa gaactttatc tgcattaat ttt

463

<210> 872  
<211> 501  
<212> DNA  
<213> Glycine max

<400> 872

acactatcta gatctcaagc ttacaacata aactaccctc attctttgat tcattttaata 60  
taggggaact tattccaagg attaccaaatt gaggaccctt atgaacattt ggcaacattc 120  
attgaaatct gtaacactgt aaagattgca ggtgtgccat atgaagccat tataactcaat 180  
ctatatccaa tttccttagt aggagaagcc aaaagggtggc tacactcatt taagggtgac 240  
aatctgaaaa cctgtgaaga agttgttgaa aagtttctga agaaatattt cctatagtca 300  
aagactgtga aagggaagc tacaatctct tcatttcac agttgcctga cgagtccttg 360  
agttaagcgt tggaaagggt tacagggtcta ttgagaaaga ctcccaccca tgggttcttt 420  
gagccaatta agttgaatat gtttatggac tggctgagac cacagaccaa gcaactacta 480  
tatgcttcat aagggggaaa a 501

<210> 873  
<211> 630  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 873

agctttctcc actaagttgc ctgatgcttg aaatgtattt tctgatggca gtggctcctag 60  
atgcagggaa gaatttctcc aagaacaccc tcttaagggtc atcctagctg gtaatggacc 120  
tgggagcaag gtagtacaac caatcttttg tcaactccctc cagagaatga ggaaaagcct 180  
ttagaaagat atgatcttcc tggacatcag ggggcttcat ggtggaacag acaatatgga 240  
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gtattagtcc agtcttgaga acatatggaa catcgtcac aggatattga atgcacaagc 360  
tttcataagt gaagtcagct gcaaccatct ccctaagagt cctctcacga ggtggagatt 420  
gagccatggt cttagtatga aaattagcag ccgaatgctc aaaatcagaa tgttcagacc 480

aacaacagaa tgctcaaaat gcacagaatg attaggatgc acagaatgat aaggatgccc 540  
 agaatgatca ngatgcacac tatgccttac taatatatga aaggttctat cttattcagg 600  
 gatcaagggg tgtaaatac ctggattggc 630

<210> 874  
 <211> 634  
 <212> DNA  
 <213> Glycine max

<400> 874  
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 tgcacttggt gccagactct gtggtttatg ctctatgct gaccaccaca cagacctttg 120  
 cccttctatg caacaatcta aagtaattga acagcctgaa gcttatgctg caaacatcta 180  
 caatagacct cctcaacctc agtagcaaaa tcagccacaa cagaacaatt atgacctctc 240  
 cagcaacaag tgcaatcctg ggtggaggaa tcatcccaac cttagatggc cgagtccttc 300  
 acaacaacat caacaataag attagcctta ttttcaaat gctgctggcc caagcagacc 360  
 atagttcct ccaccaatcc ggcagcaaca acaacaacag cccagaaac acaacaacat 420  
 tgaggctcct ccgcaacctt cccttgaaga acttgtgagg caaatgacta tgcaaacat 480  
 ccagtttcaa caagagacca gagcctccat tcagagctta actaatcaga tgggacaatt 540  
 ggctacacag ttaaatcaac aacaatccca gaattctgac agattacctt cttaatctgt 600  
 ccagactccc aaaaatgtga gtgccattac attg 634

<210> 875  
 <211> 458  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 875

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 tgccatgttt tcaaagcccg tactaaggca tacaactcct taccataagt tgaatangta 120  
 agggtaggac cacttaactt ttcactaaaa taagcaattg gatggctctc ttgcatcaac 180  
 acagccccaa tccaacatt tgaagcatca cactcgattt caaaagattt ttgaaagttt 240  
 ggcaacgcaa gtatggnggc attaattagc tnttgcttaa taacattgaa agcttcttct 300

tgtttctctc cccatttgaa accaacatth ttcttgagca cttcattgag aggtgctgcc 360  
aatgtgctaa aatccttcac aaatcgtcta taanaactnt ctaagccatg agaactcctc 420  
acctcgggtca cggacttatg tgtaggctat tcttgaat 458

<210> 876  
<211> 454  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 876

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gtggatggcg ccgcctctta cctcttctcc ttgtcttcc gctgcattct catggtggaa 120  
aatcaccatt aaaggacctc attgaagctc aaagatccag cttccataga agctccacaa 180  
gcaagtttcc atcaggaatg atgcaatcct accccgcaag ggcattggat agaagactcc 240  
aagtagattg ggctagagat gcaagagaag gccctagggt tctcatgagc cttaggatag 300  
atttcggggc catgggctaa gtatgagccc acttatcttt gtacatatta gattaagggt 360  
tcattaattn tgggtctttt atttaaggct ccataatgta ggaagggtag cctagaaata 420  
taggaatttt cagcccttgt attttagggt acct 454

<210> 877  
<211> 396  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 877

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tacttgtgaa agagagccat gtgggtgggt tcatgggcca ctttgaata gacaagaccc 120  
ttgtcttact caaagaaaag ttttattggc cccatatgaa gaaagatgtc cataagcatt 180  
gcactacgtg tgtggcttgt ttacaagcca agtctagggt gatattctcat gggctatata 240  
cacccttacc catcccatct gcaccttgng tagacattaa tatggacttt gtncttgggc 300  
tttctagaac ccaaagaggt gtagactcta tctttgtggt ggtggatagg tgtagcaaga 360  
tggcacactn tataccatgc tacaacgtgg atgatg 396

<210> 878  
 <211> 428  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 878

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 atccgattta ggctcatcac atatagagac gctcaaaatt gaacaacgga agctctcgag 120  
 aaattcaaatt ggctcataact tttaactcgg aggtccgatt caggcgcata atatatcgag 180  
 acgctcgaaa ttgaacaacg gaagctctcg agaaattcaa atggacataa ctttlaactc 240  
 ggatgtccga ttcaggcgca tcatatatag agacgctcga aattgaacaa cggaagctct 300  
 cgagaaattc aaatggacat aacttttaac tcggagggtc gattcaggcg cataatatat 360  
 cgagacgctc gaaattgaac aacggaagct ctcgagaaat tcaaattggac ataacttnta 420  
 actcggat 428

<210> 879  
 <211> 397  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 879

agcttgtagc anatgcaaac ggcaataaca ttttactcga atgttctatt tagtcacgta 60  
 atgcatcaaa atgctcgaaa ttgaaaacag aagctcgggtg caaattcaaa cgacaattag 120  
 tttttactcg gatgtccgat tgagtccectt catatatcga gacgctcgaa attgaaaacg 180  
 gaagcttgta ctatattcaa acgacaatca tnttttactc ggatgtccga tggagtcccg 240  
 taatatatcg agacgctcga aattgcaaac agaagctctg agcaaattca aacgacaata 300  
 actttttttt cgaatgtccg atggagtccc gtaatatatc gagacgctcg taatggaaaa 360  
 cagaggctct gacataattc tacaacaata catttta 397

<210> 880  
 <211> 434  
 <212> DNA  
 <213> Glycine max

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<223>      unsure at all n locations
<400>      880
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ttcaagaaac gccgtctgaa cttagcgagcg tctatcgggt gcgggcgtag ggggacacat	180
aaaattgcac ctgccagtcg tgggagcagt tgtcgctatc catcacgtga cggaggtgct	240
tgccggcgcg gaggatctcg atcattcctt ggatcgctga cggaatgctg tggtcgggtg	300
aggtgatgta tgtcgccgta tcccgattcc cctacgactt cccatgccgt atcagtattc	360
ttaatttttag aagcacacca accatatatt ctcttctctt tgcattccat tttctttcat	420
gctgacaaat ttaa	434

<210>	881
<211>	415
<212>	DNA
<213>	Glycine max

<400> 881

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gtttcccaaa caatagtctc acgcactgtg gctatgcggg tggccaaaat tctagacaca	180
atcttgtatt acaaattaca gcaagatatg ggtctaaaat ggttaacctg agagggtctga	240
tcattgcttag gaataagcgc aataataaca tggttgagtt gctttaaaaa tttgtcagtg	300
gtaaagaatt catttaccgg ctcatagata tcattaccaa tgatattcca agccttcttc	360
gaaaataaat cattgagacc atctggccct acagctttat tgttatccat cacag	415

<210>	882
<211>	462
<212>	DNA
<213>	Glycine max

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<223>      unsure at all n locations
<400>      882
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tttgctttta tcgattaaca tggaccgttc aaaagcataa aatcaatatg taactttact 120

gcttttgcaa gaactacgta ggtctgattt cctcatcgca attgaggata tgtaggagca 180  
aaagccccgc ttttgtcgac caccccaaga gatcgtaaat ggttcaacgc cttaacattt 240  
ctctcctttc aaaacaaga gatcgtaaat ggtccaacgc cttaacgttt ctctcctttc 300  
aaaagaatca aagatcgttt aatggtccaa tgccttaaac gacttttgtg cggttaaaat 360  
cgatcttgcg aaaaaagatc aaaacaactt aactggaaat actgatcata cattagtatg 420  
attaaacatt gtanacacaa tcaaacaatt ttcaacaatt at 462

<210> 883  
<211> 353  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 883

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accaagatat caagttggga ccaacataca ctgctgcacc agagtttagag tgcctatcaa 120  
tagggctctga agcccagtaa gaatcacaaa aaccttacat gggaagagtt ttatgaggtg 180  
aggcaagata caaaataagt cctgaatgta aagcaccctt aagatacctt aaaattcttt 240  
ctactgttgt ccagtgggat tcaagagggtg cagacatgaa ctggcaactt tatttcaaca 300  
naactaactc tagatgagtg atagtacata ctgacagctc cacaacagat ctg 353

<210> 884  
<211> 370  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 884

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cctcttttgt attaggaatc aagatactaa gagatcactc tcaagcatnc taaggttgtc 120  
acaagagagt atatcgataa ggcctagata gattcggcat gaaagatagt aaaccagtag 180  
ataccagat agctaaagga aacaaattta gtctcaaaca acacccaat aatgaccttg 240  
aaagaataga gatgcaaat atttcttatg cattagcatt agaaagtcta atgtacgctt 300  
aagtttgcac tcgtctcgat atagcatttg tagtaggagt tctgggtaga tattttgagt 360



atcctggaat

370

<210> 885  
<211> 495  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 885

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cattcttgga tggccttgat tntctcaggg tccacttgga cccatttct accaactaca 120  
aaccctaaga aaactatatt ttctacacaa aaagtacact tctctatatt tgcatagagg 180  
gtgtttttcc taaggactga aagaacttgt ctgagatttc ataagtgatc atctaggctt 240  
ctactgtaca ctaaaatata atcaaaataa acaactacaa atctacctat gaaatccctt 300  
aagacatgat gcataagcct cataaagggtg cttgggtgcat tagtgagccc aaaaggcatc 360  
actagccatt catacaaacc aaacttggtg ttgaaagcgg ttntccactc atcacccttt 420  
ntcatcctga tttgggtgata cctaacttta agatcaatnt ttgaaaagat attggcacca 480  
tgcaactcat caagc 495

<210> 886  
<211> 356  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 886

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cagtgccecg atcctcctag tgtcggcatt tgtggaggag acgtgatgca attctacctc 120  
gcaagggcat tggatagaaa actcctagta cattgggcca gagatgcacg agaaggccct 180  
agggttctta tgagccttac ggtagatttc gggcccatgg gctaagtacg agcccactta 240  
tctttgaaat attagattaa ggtttcatta tttttgggcc ttggatttag ggctccataa 300  
cgtacatagg gtaccctaan atataggatt tttcagccct tagattgtag gacatc 356

<210> 887  
<211> 392

<212> DNA  
<213> Glycine max

<400> 887

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gctccattgg agcttgtagg cctaggatct tcttcatcaa tggattcctt tgcttcttgg 120  
aagatgaatg gcagtggaat gaagaaggaa gagagagagg agacgccact tcaaggagaa 180  
gatgagtcta gaagaagctc accaccatat gaggccatgg ataaaagctt ggaggaagaa 240  
agagatgaat gaaggagag ggagagaaga gcacgaaatt ttgtgctcca aatgagctct 300  
gaaatctgaa gtttaatat ccaatgatca aagttgaaaa aaatgcacac acatgacctc 360  
tatttatagc ctaagtgtca cacaaaattg ga 392

<210> 888  
<211> 472  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 888

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tatgcagggt gaaagccttg gaggaagag gtatgcctat gttgtgtgg atgatttctc 120  
cagatttacc tgggtcaact ttatcagaga gaaatcagaa accttgaag cattcaaaga 180  
attgagtcta agacttcaaa gagaaaagga ctgtgtcatc aagagaatca ggagtgacca 240  
tggcagagaa ttgaaaaca gcagggtcac tgaattctgc acatctgaag gcatcaccca 300  
tgagttctct gcagccatta caccacaaca gaatggcata gttgaaagga aaaacaggac 360  
tntgcaagag gctgctaggg tcatgcttca tgccaaagaa cttccctata atctctgggc 420  
tgaagccatg aacacagcat gctacatcca caacagagtc acacttagaa ga 472

<210> 889  
<211> 411  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 889

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atgttatgtt tttgcagagt tgctgtggat aacatttcaa gcggaacaga cactgtcata 180  
aaggttccaa attcaccttt cgttggtttt gtcttttctg cattgccaaa gggtcctttt 240  
tctctttgtg tgaccaattt tccgtgtgtg ttgttgcagg ttgatagcgc gaacaagcgt 300  
gggagcttgt tggaggtggt tcangttctc actgatatga atctcagtgt tagaagagct 360  
tatatttctt ctgatggaga atggttcatg gatggtacgg atcccttcac g 411

<210> 890  
<211> 471  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 890

agcttgaacc ttgagtcttg attcttgaaa tcaaatttcc tcttgaacct tgaagtgttc 60  
ttaattcaat cttgaacatc ttgaacatct tgattcaatc ttgaacatct tgaacatatt 120  
gaactcattc tttgattatc atgaattgac ctttgagctt tttgtcatca cttttgttat 180  
catcaaaaca tctttgaatc aatcttgatt catcatgaag ctttgcttct acacatactt 240  
agtaggatca aaagttattg tttatactga ccatgaaccc attaagtacc tgttgaataa 300  
agctgattcc aagcccagat taatcagatg aatcttggtt ctttaagaat ttgatctggt 360  
tatccaagac aagaaaggat ctgaaaatct tgtagctgat cacttatcaa ggtagtcaa 420  
tgaggagggtg actttgaaag agctatagat aanggatgaa tntcctgatg a 471

<210> 891  
<211> 452  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 891

tgtaatcgat tacacatata ctgtaatcga ttaccagagc agattntcag aaaatattct 60  
caacagtcac atcttttatg tggttcttga atggctatca aaggcctata tatatgtgac 120  
ttaagacacg aatttgctaa gagtttttca gaacaaaaag gtcttatcct cttaaaaagc 180  
aaatcgtttt atcctcttac aaattccttg gccaaattac ttgtgattca ataaggaatt 240

atttgagtac tcaaattggt caatctatct ctttcaagag agattttcttc ttctcttctt 300  
 cttcattctg aaaagggatt aagagaccga gggctctcttg ttgtgaaaga attctaaaca 360  
 caaaggaagg gttgtccttg tgtgtttaga acttgtaaaa ggaatttaca agatagtgga 420  
 actctcaagc ggggtgcttg gggactggac gt 452

<210> 892  
 <211> 456  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 892

agctntggag tttccaagtg ccaattcgtc ctcttcttta gtccagtctt cttctggctt 60  
 caattcatca gtgggcttct cttctgtgtc cagcatcttg ngatgttccc agcctatgat 120  
 gacagcttct caggttctgc tatccactga tttgaggaag gccaccattc ttgctttcca 180  
 gtattcatag ttgcttccat caagaattgg tggctctgtc actggctctc cttctttctc 240  
 catgttcac agaatctatc tccccagatc tcaactctgtg atttcgagtg tttgctctga 300  
 taccaattga aattctgata ccacgggaca gatgtcgtac aggatgtcac gacatcacgc 360  
 ttcataacat gcagattgta tgtgtccgta tgaacagact acacaagtna ataacacaag 420  
 agaattgtaa cccagtcggt gcacctcacc tacatt 456

<210> 893  
 <211> 348  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 893

agcttgccga cagtagtaat ggcggttgc atgtaaataa cagacccgca ccggatattg 60  
 ttntgaaacg gacctctctc cgtaaattgg ttctaaaagg aaccccatatc agtaaatttg 120  
 ccaagaaatt aatgctgtac ccataaaata attttttaaa atgaatacta atgttatatc 180  
 agataataaa aactgatatt aattctatga ttttattttt taatattata gtatcgacca 240  
 tgaataaatt atataatatt ttgaaaata tatatacgcg taaagaataa ttataatttg 300  
 ctacaatata agcattctga atccttttat catgagatta tatatttt 348

<210> 894  
 <211> 467  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 894

agctntagca caatggcaag gttactttct tatgagttac taattcaatt ctttaaccccc 60  
 actatgtaag agccttgccc attgggtcac ctctttttta ttttgtaaca tttatatata 120  
 taaagcaaag tatgatacat agtaggaaca caataatata caaaagttaa ataatatatt 180  
 ttatcgctca atatataatt cgctgataaa tgaatccttg aacgatgaat atataaaaatt 240  
 tagtccctaa aagtataaat agtgtgaaaa gtaagtaatc gacaacgtga ccatgctgat 300  
 tagatttgat gaaaatgtca acaagatata acgtaaattg taatcattnt ttggtggaca 360  
 aaaaatgtca atattttctta ttgaagataa tatcagtaat ttgtttattta cctaaatgtc 420  
 aatacatttc attggatcaa aatatcaata cgttatcatt attggac 467

<210> 895  
 <211> 452  
 <212> DNA  
 <213> Glycine max

<400> 895

cctatcgccc ttagactaat ggctagattg aacggaccat tcagtcgctg gaggaccttt 60  
 tgagggcatg tgtcttagaa caaaagagga gttgggagag ttaaagacta ctcaaagtag 120  
 gcagaaaaac tatcaggctg ctcaagaaaa actgagaagg tcaagttaat ccaagaaagg 180  
 ctaaagactg ctcaaagtac gcagaagagc tatcatgaca agaggaggaa agacctgaaa 240  
 tttgagattg gtgatcatgt attcttgaga gtcattccat tgattgcgtt ggtcaagcat 300  
 tgaaatccca aaaactcata cctcgtttta tcaacccttg ttaaattctc aacagagtca 360  
 gtctacggc ataccatatt gcattacctc tgtctctgta caatcttgac aatatctttc 420  
 atgtgtctca actcagtaat tatatctgtg at 452

<210> 896  
 <211> 446  
 <212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 896

agcttgaacc ttgagtcttg attcttgaaa tcaaatttcc tcttgaacct tgaagtgttc 60  
ttaattcaat cttgaacatc ttgaacatcc tgattcaatc ttgaacatct tgaacatatt 120  
gaactcattc tttgattatc atgaattgac ctttgagctt tntgtcatca cctttgttat 180  
catcaaaaca tctttgaatc aatcttgatt catcatgaag ctttgcttct acacatactt 240  
agtaggatca aaagtatttg tttatactga ccatgaaccc attaagtacc tgttgaataa 300  
agctgattcc aagcccagat taatcagatg aattttgctg ctttaagaat ttgatctggg 360  
tatccaagac aagaaaggat ctgaaaatct tgtagctgat cacttatcaa ggtagtcaa 420  
tgaggaggtg actttganag agctag 446

<210> 897

<211> 459

<212> DNA

<213> Glycine max

<400> 897

gacactatga atactcagct tgtaggctag atatgaactg ttggactctg ttaacactgt 60  
gtcgtgtgtg gagcattctg gacatacag cacactttct gattcatgct cttatgcaca 120  
cacacacaga gagattcggt ctctcgtag aaacactacg catacgaaca ggcagacgct 180  
cacgctgaga acctgtaaca cagacacttg tcagactcac gcacttacac agacaccaca 240  
gactgactat gacctattca gagacaagcg cactcccaga tacacgcact ctgatagact 300  
tagatggcag aacttttcac agaagcacac acaccacag attcactgtc acacagttgc 360  
tgacacacag agaccatgcg ctcattcaca cttgtagaca cacacatata cacacgcaca 420  
ctcacactga gaactagccc cagacacaca cacacgctg 459

<210> 898

<211> 451

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 898

gtgaagctcc tgttttagct ttacccgatt ntactcaacc attngaagtt gaatgtgatg 60  
ctagtggagt tggcattggg gctgttttga tacaaaacaa aaggcctata gcttatttct 120  
cggagaaatt gggaggagcc agattgaact attgcaccta tgacaaagag ttctatgcca 180  
ttgtgagagc tcttgatcat tggaatcatt atttgcgttc taatcacttt atattgcatt 240  
cagatcatga gtcattgaag tatatcaatg ggcagcagaa gttgagtcca aggcattgcta 300  
aatgggttga atttcttcaa tcttttaatt tctcttcaaa atacaaggat ggtaagagta 360  
atgtggtggc tgatgcactc tcaaggaggt atgctttaat ttcaattctt gaaactcgtt 420  
tacttggttc tgagactctg aaagattata t 451

<210> 899  
<211> 376  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 899

agctntgagc anattcanac gacaataacc tttttactcg gaagtcggat tgagtcccgt 60  
tatatattca gacgctcgaa attgaatggt gaagctctga gcaaattcaa acgacaataa 120  
ccttcttact cagatgtcgg atagagaccc gtaatatatt gagacgctcg aaatggaata 180  
ccgaagctct gagcaaagtc aaacgacaat aactttttac tcggatgttc gattgagccc 240  
cgtaatatat cgaaacgctc gaaattgaat gctgaagctc tgagcaaact caaacgacaa 300  
taaactctta ctcggatggc cgattgagtc tcgtaatata tcgagaagct cgaaatggaa 360  
taccaaagct ctgagc 376

<210> 900  
<211> 453  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 900

ctgaagcaat ctctgctgct tgaatgcaat ttcagagcca atcccttcaa tagctttgtc 60  
ccctgggatg ataagagcaa agaaataata aatttggaag tctcttttgt tagctcacta 120  
aaaggtgata cttaaaagca aacacttttc aagtttcaaa actgtatata aagaatgtat 180

acttacagta ttctttgtca atacattaag tgaatcctca tgaaaccaca atcgactgcg 240  
 cttcccaggt ttctttgttg aactttcacg aattatctct cttcccattgt ctcgtagtaa 300  
 tggatgcatt ccaagtctgt tgttctttgc aacttttacg aggctacgct ccatgagaac 360  
 tgttattcct atatcagcat gtagtcacaca gccatntagt atctctgtaa cataagctct 420  
 atctttacca ataaagagac aacatacatc aag 453

<210> 901  
 <211> 396  
 <212> DNA  
 <213> Glycine max

<400> 901

tactcattga ctataagcct ctcaatcatt ttcttaaaga tgataagttc cctatcccaa 60  
 aggttctatc tttccccacc ttgataagag aatcaaactc attctcaaag aatgatttaa 120  
 aatcaggttc tgggcaactt ggcctaaaac cacataatcg atacaaaaca gcacccctgta 180  
 tgccaaatgc tcaatatcaa tggacaggct tacctttagg cttaaaagta gcttcttctc 240  
 tcttgcagaa agccatgacc aaaatctttg aaccattctt ggaaaacact cttgtctaca 300  
 tagatgacat tctcctttgt tcaaaagata ttgcctctca ctaaaaattg ttgaaccaat 360  
 tctttgaaat agcacaccaa catgggatca tgcttt 396

<210> 902  
 <211> 364  
 <212> DNA  
 <213> Glycine max

<400> 902

agctcgatgc aatcctaccc tccatgggta ttgtatagaa gactccaaga ggattgagct 60  
 agagctgcta aagaaggcct tggcgttctc atgaacccca aggtagattt ctgagcccat 120  
 gggccatggt tgggtccact cttctttgta aatattagaa tatgtttttc cttcttttgg 180  
 gccttgatatt taggccattc tagtagtata ggatttttagc cttgtctttc atggcaattt 240  
 gagtagactt tgtagtaggg actttttattt ttcattgtatt ttggcatggg ggcgagctta 300  
 tctattatag ggagtgcgta actaagccct acctttttta ggaatcttcc caaggaatct 360  
 tctt 364



<210> 903  
 <211> 461  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 903

actatgaaac tcagctgata gatttanacc acacctttat ctctatagta ctttataatt 60  
 gaagaataca cattcggttta tttattatctt attattttta aatgataaca aaattgaata 120  
 aaagtgaggt tattctttat tcgttgcaag tgtaattttt ttatattgtc aagtaactag 180  
 aaatcatggt agatattatt tttaagatca ttttataaaa ttcaagaaac ttatttaatc 240  
 tataattgaa taattctgta aatttaaatt aaactttaaa agtaattata aacattcaat 300  
 agataattta acttcaaacc ataattatga atgcctcctt ttcataacta taagatgttt 360  
 tagctntatt tcttatctta naataattga tattntagaa attcanaatt taattaatat 420  
 tttttccaat tatatcctta tttattatct cattattaat g 461

<210> 904  
 <211> 372  
 <212> DNA  
 <213> Glycine max

<400> 904

aagtccaacg cagcacgcgt gtcgttaaag ttgttatatg ttatgctttg aaggagatga 60  
 acgtggagtg tagttaccac tgtactctac tctagcagtg gttgtggtgt tatcaaaggc 120  
 aacaccaaca ccacttgaat atgctcttgc agcaagacac ccatgattag gttcttggtt 180  
 ggcatgcaat aacacatata ttggctgtcc cggtgatatg caaatgtatt cccttgccaa 240  
 tggcttggtt aacataccat cagcaccaac aacagcgagg ttgtgttctg tatcatagaa 300  
 caagagaatg agattcattg ccgcattgtc tacacggaga taataagtcc tgccttgctc 360  
 tacatgaaac tc 372

<210> 905  
 <211> 469  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations

<400> 905

ggatggagaa tatgggtcca tacttgtcag ccaagtcacc caatgttnta tgaggtgtct 60  
ttgaaccaag caacaatggg aggtgaccaa ttattggcca cgcacctgca actgtgggag 120  
gaccctcttc gccactcttc gaggaacgac gacacaaaaa caagtataag aggatcagag 180  
aaacaacacc aactccaatt gttgtggtgt ttagaactaa gtccattntg acttgttttt 240  
gtgttgttgc atgcagatcc tcatcagttt aaataggaac tgcaccgtgc atctgtgtgc 300  
cgttgtacga cctgactaga tgcagtagag atatttagat attntaatat tntagaatat 360  
attcattact tgaattaact aanaaataaa ataatgttgc tgaaatgatg aaataatata 420  
gccaaataaa atcttgatat tntaagatat nntttaattt tatattaca 469

<210> 906

<211> 465

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 906

taacgtctnt cacagtanaa ggaccactcc atctctcaat tntaattntc caggaaacaa 60  
ctttagtntt aagttgtaga gcaatacttg ttgtctggga ctaaattctt tgtggaggat 120  
ctttttgtca tggtcctctt tataatccct gaacacttta aacttggagc caaacaggta 180  
atgcctccac atcttaaggg caaaaactac agtagccaac tccagatcaa ggggtgggata 240  
attcctctca tgagtcttga gttgtctaga agaataggcc actccttggc cattttgcat 300  
caacactcct cctaaacgca tctttgatgc atcacaatac acctcaaggn gttctcttgg 360  
gttaggcaaa actagcatgg gagcggccgt caacttttcc ttaagggttt ggaaactatg 420  
ctcacattag gtatcccaca caaaagcttg acccttacga gttag 465

<210> 907

<211> 456

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 907

agatggacca tttcaagtga aagaatcaat gacaatgctt acaaagttga gctgcctggt 60

gagtataatg tttgtttctac cttcaatgtc tctgacttat ctctttttga tgtagatgaa 120  
 gaatccgatt tgaggaaaaa tcctttctcaa gagggagaga atgatgagga catgactagg 180  
 agcatgggca aggatccact tgaaggactt ggaggaccta tgacaagggc tagagtaagg 240  
 aaagccaagg aagctcttca acaagtgttg tccatactat ttgaatacaa gccaagttt 300  
 caaggagaaa agtccaaggt tgtgagttgt atcatggccc acatggagga ggactaaatg 360  
 gcaccacttt gtctcaattn tagagtgggt agtttgtcta aataatggcc caatccttgt 420  
 aatgttggct gaccaaaaat atgttttggg ttaatc 456

<210> 908  
 <211> 449  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 908

tgtaggcggt ggatcttctt catcaatgga gtcattggct tcttgaagat catggcagcg 60  
 gaatagagaa ggaagaaaga tgattggaga cccacttca aggagatgat gagtcaagaa 120  
 gaagctcacc accacaggaa gccatggata agagcttgaa ggaaggcgaa gatgagtga 180  
 gggagagggg gagaaggggc acgaaattnt atgcctcaa tgaggtctga actttgaagt 240  
 gtaattctca aatgatcaaa gttcaaaaaa tgcacacaca tggcctctat ttatagccta 300  
 agtgtcacac aaaattggag agaaatttga atttctattc aaatttctact tgaatttgaa 360  
 attgaatttg tggagccaaa atttcaataa ttatgattaa tgaattttag atatggttca 420  
 gccactaat ccaagatcaa gtccaagat 449

<210> 909  
 <211> 434  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 909

nttataanaa gcatttctaa gcataaaact aaaatatgtt gtattgagct cttgggtattt 60  
 tttttatgat aacattttta attatgagta taattttata attattaaaa gccatcagtt 120  
 tttttttaa taataatttg ttcacatttt gttcaaataa acttaatgta agttctctga 180

atttattgca ttctggcgac tgaaattcac aatcaaaact taaagtgtgc tgaataaaaag 240  
 tttttcatag atgtaatcta gtaaaataat gcttcataaa taattaggtg tctaatagaa 300  
 gaataaagtt aatacaactg ttctcgaaat taaagtagaa tcgatacatt cacagatgtg 360  
 tatacataat aatgggtgtag tattcaatac atattgtttt gctttactgt cgaactatgg 420  
 aattccatat acat 434

<210> 910  
 <211> 330  
 <212> DNA  
 <213> Glycine max

<400> 910  
 agcttgagct ttgaattgag tgtcattgtc agtggcaatg gcgtaaagaa gaccatattt 60  
 tcatatgaag gggttgcattg agaacttctc tacctcatct ggtgaaattt ctgcgaatgg 120  
 tcttgcccta atccacttag tgaaataatc aatagcgact aataagaatt tgacctatcc 180  
 tggggctttt gccaatgggc ctagtatatc catccccac atggaaaaag ggccaggtcc 240  
 tagtatgacc aataagaatg taccctttgg ctgctcagc tagctcgtcc atgctgctag 300  
 ggggtttctt gcatatacta tcagggaact 330

<210> 911  
 <211> 444  
 <212> DNA  
 <213> Glycine max

<400> 911  
 ctcagcttga atgaagtcca acgcagcacg cgtgtcggtta aagttgggaa ggtaggcaa 60  
 tgaaggagat gaacgtggag tgtagtttcc actgtacttt actctagcag aggttgtgga 120  
 gttatcaaag gcaacaccaa caccacttga atatgtcttt gcagcacgat agtaatgatt 180  
 aagttcttgg ttggcatgca ataacacatc cattgtttgt cccggtgata tgcaaatgta 240  
 ttcccttgcc aatggcttgg ttaacatacc atcagcacca acaacagtga ggttgtgttt 300  
 tgaaacagag aagaagagaa tgagattcat tgccgcattg acaacacgga gaagataagt 360  
 cctgccttgc tctacatgaa actcgaacgt ttctgaaaat taaaagaaag ttttgtgttt 420  
 agatgagctt aacctcatag atac 444

<210> 912  
 <211> 347  
 <212> DNA  
 <213> Glycine max

<400> 912

ttagaccttt gatggcatgc tggcatcacc ctcatctctg ctcttgctag cttcaaactt 60  
 atcaattgct acctgcagtt catcagtgcc tccaacagcc ctcatggtgt agaagtatgc 120  
 accaaagaca aaagctgtca aacccccagc aactaccaga ttctttgctt taggtggaag 180  
 gctcctatat cctaaaagtc cagccatctt gatcaatgtg ggaaaaaagg gttagcacia 240  
 tttcacacia ttacaattac ccttcaattg cagaaagcac aaaagatcac aaaacagata 300  
 attcagatct gtaaagaata atgagtagac attttcacaa acagatt 347

<210> 913  
 <211> 464  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 913

agctntaatg gtgttaagaa gaaatcacat gttttgtatc atcaacaaga gggagaatgt 60  
 gaatgtatgt atacatgatt ttgatgatgt caaaagaaga atcaacaag gctcattttg 120  
 cttcaagatt aatacaagat tggttcatca aacaaagcct tgattcaaga tttcttcaag 180  
 atcaagcctt gcctcacaat gaaagggttc aagtcattca aggcacatgt aatcgattac 240  
 caatacatgt aatcgattac caatgggttg aaagtgtgta atcgattaca catcatatgt 300  
 aatcgattac cagagactct gaacgttggg aattcaaatt ttacatgaag ggtcacaact 360  
 gttcaagaca aacaactgtg taatcgntac actaattatg taatcgatta ccagagagga 420  
 ttttcaggaa tategccaac agcacatctt atcatttgaa tttg 464

<210> 914  
 <211> 416  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 914

agcttcttga cctgaatcaa cacatcctca atcacttcat atgggtcttgt gacagagcga 60  
 tcaaccaact ggagggtcat gcatgtgggc attatctcta tctctccaag tcgccgacac 120  
 atggagagag gcattaaatt gatactagct cccaagtcta tgagagctnt acccacaaca 180  
 acctcaccaa tagaacacga tatactgaca cttccaggat ctttgtgctt cgggggaagg 240  
 atgcgttgaa tgaccacact atagttacct tccacaacta ttgtgtcact gtggatatac 300  
 cggttattct ttgtcagcat gtcttttaaa aatatggcat aaagtggcat ctgttgagaga 360  
 gcttctccaa aaggcaaagt gatcttcac ttcttgaaga tgtcaagaaa tctggc 416

<210> 915  
 <211> 402  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 915

taagctcttt caactgcaca aagctattaa tattngaaga gtatccatat ggaaccttca 60  
 cccgacgaag aactgcaca aaacttatct tctctttttt ggacaaagca tggcaagcta 120  
 ggggcaagta aattttcttc ccatcagacc ttggatgcaa ctgtgatcgt atccccatat 180  
 aagctagatc ttgatgggta ttcaagccat ccttcgtctt tccttgaatg ttaaggagca 240  
 tcccaatcac actgtcaca acatttttct ccacatgcat aacatcaata caatgtctaa 300  
 cgtctagatc agaccagtac ggaagatcaa agaaaatgga cctcttcttc catatgcaac 360  
 tcttactttt atccttcttt tgggtttttc caaatataat at 402

<210> 916  
 <211> 350  
 <212> DNA  
 <213> Glycine max

<400> 916

agaatcggac ctcagtgtga aaagttatga ccatttgaat atctcgggag cttccgttgt 60  
 acattttcga gcgtctgtat atgagatgcg cctgaatcgg acatccgagt gaaaagatat 120  
 gaccatttga atatgtcgag agctttcgat gtttaatttt gagcgttttag atataagata 180  
 agcctgaatc ggacatcctg gtgaaaactt atgaccattt gaacttctgg agagcttccg 240  
 ttggggattt tttaacgtct ctttatgtga tgcgcatgaa ttggacatcc gaattaaaag 300

ttatgaccat tagaatatct caagagcttc cgggtgtacaa ttctgagcgc

350

<210> 917  
<211> 399  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 917

agctttctata gaaggttcgt tectaatttc tctacaattg catcacctct caatgagcta 60  
gtgaagaaga atgtggcatt taactggggg gaaaaacaag agcaagcctt tgctttgctt 120  
aaagaaaagc ttactaaggc acctgttcta gctcttcta acttttctaa aacntttgag 180  
ctagaatgtg atgcctctgg agtgggagtt ggagctgttt tgttgcaagg tgggcacctt 240  
attgcttatt ttagtgaaaa acttcatggt gcgaccctta actacccac ctatgataaa 300  
gagctttatg ccttaataag agcactccga acttggaac attaccttgt ttccaaggaa 360  
ttgtcattc atagtgatca acaatcactt aagttcatt 399

<210> 918  
<211> 399  
<212> DNA  
<213> Glycine max  
  
<400> 918

tagtatatgg acttgggtgt tgcccagttt catcatatct tccgtaatac ttatcacctc 60  
tatcatatct aataattttc acatttatgt ctaattgcc ttttacttca ttgtagtaaa 120  
tttctaaagc atccattgcc taagaaatct cgggcagtaa gtagacataa ccgtaacgtg 180  
aataatcatc aataatggtg ataaagtatt attcctttcc gaaagaacta acatcaaaag 240  
gtccacaaat attagtatgc acaatttcaa gaagctgagt gcttcttgta gctcttttct 300  
ttgtatgttt tgcttgtttt ccattaatac aacccacaca aatatttaga tccataaaat 360  
ctagataagg aagaatttca ttctttatta atttttcca 399

<210> 919  
<211> 381  
<212> DNA  
<213> Glycine max

<400> 919

taaagcacia cattgaccat gagctcttca tatcgccctc agtccaatgg ccagactgag 60  
aatcttaata agaccattga gatgtatcta aggtgctttg tatttgaaca tctaagagt 120  
tgggttacta tgctaccttg ggcttaattc tagtataata cttcctttca ccaaagcttg 180  
ggcatgacac catttcaagc agtttttggg agacctccac caacggtgat gcactacgag 240  
gttgatccta aagatcccg tccactcaag gctttattac aactacgtga tcaacttttg 300  
agcaagctta aaggtaattt actaaaggct caacaatata tgaagatgca agctgataag 360  
aaaagaagag aaagagaatt g 381

<210> 920

<211> 402

<212> DNA

<213> Glycine max

<400> 920

tgtaagattt gcaagatcat cttccttgac aactccttga aaattattgc catcaatagc 60  
cagagatgac aatttagaga gtgatccaat actttcaaact ggatttccac tgaatttatt 120  
aatagacaga ttgagatata ttaatgatga aagttttcca aatgatattg gaagagcacc 180  
accaattaag ttgttgaaa aatctagcat gtcaatattt ttaaaagccc caatttgatc 240  
tatcagattg cctgaaagtt gtgaactccg aactgcaagt gttgtgatcc cctaggaagt 300  
acaaagagca agaatttcta aaagttcatt aacctgttgg ttgagtttga gatatgataa 360  
acctatctcc ctttaagttgc agagattatc caaagaagtt ga 402

<210> 921

<211> 397

<212> DNA

<213> Glycine max

<400> 921

ggacactatg aatactcagc tcgattggag cggtatgggccc agtctgcctc gtttttcacg 60  
aatcaataaa tgattcgccc tgctctgtga cccacgggt caaacgtgcc gatccgagac 120  
ctaatttaaa agaattcgat ttataaaaa tacaatacaa tgaaattaag ttgaatacaa 180  
atgtaaataa aatctcaata attagtcaat tacatcaata aaataaatat tgtcttaata 240



aaagaaaatc caagcaatac atctaaaata tgaaatttaa acatctccaa caacaaatga 300  
 ttccatattt gataatgttt aatgaattct gactttaata aaaatataat acaatgaaat 360  
 taagttgaat acaaatgtaa ataaaatata aataatt 397

<210> 922  
 <211> 361  
 <212> DNA  
 <213> Glycine max

<400> 922

tgaaggtag agatgatgag aggatggata aagagtgtag gaactctatc gctgtgcct 60  
 cagagaaggt ctaaacattg aagagtaatc ctcaaataat acaaggtgaa aaatgcacac 120  
 acatggcctc tatttataga ctcatgtctg caacaattg gaaggaattt ataatttctt 180  
 ttcaagattc acttgaatct gaatttgaat tgggtggagcc caattttgga gccgaaattg 240  
 cagtaattat tattagagaa ttccagttat gggtcagccc actaatataa gacctggtgc 300  
 aagagtttgg actaatagt ctgatgtggc atgacgaatg tatagcatga aagacatgca 360  
 c 361

<210> 923  
 <211> 380  
 <212> DNA  
 <213> Glycine max

<400> 923

ttggagaatg atttctatac aaaagttagt cgtataaagc gactaacagt gtgttacatt 60  
 atggcatttg cctatgttcc tgatgcagga ggcttgagga agaagatttt ggaggaagct 120  
 catcattcct ttacaccac tcatccgagt tctactaaaa tgtatcaaga cttaaaggag 180  
 ttttattgga agggagggat gaaaaggatg tagctgaatt tgtatctaaa tgcctagtat 240  
 gtcagcaagt taagacagag catcagaagc ccgtaggttt gttttagagg attgatatac 300  
 ttgaatggaa atgggagaga attgtaacac cccagattct agttcaaac attgctttga 360  
 aaactctcgt taattatttt 380

<210> 924  
 <211> 397  
 <212> DNA

<213> Glycine max

<400> 924

tgttgaacct ctcccattac tcatataatg tctctccaag ttgttgctt attgatgcaa 60  
gctccattgg agcttgtaag cctaggatct tcttcatcaa tggattcctt tgcttcttgg 120  
aagatgaatg gcagtggaat gaagaaggaa gagagagagg agacgccact tcaaggagaa 180  
gatgagtcta gaagaagctc accaccatat gaggccatgg ataaaagctt ggaggaagaa 240  
agagatgaat gaaggagag ggagagaaga gcacgaaatt ttgtgctcca aatgagcttt 300  
gaaatctgaa gtttaatat ccaatgatca aagttgaaaa aaatgcacac acatgacctc 360  
tatttatagc ctaagtgtca cacaaaattg gagggaa 397

<210> 925

<211> 391

<212> DNA

<213> Glycine max

<400> 925

taataagtgc atatgatgta gctccatgta gagcttgtaa gccttggatc ttcttcatca 60  
atggagtcct ttgcttcttg aatatcaatg gtagcggaat ggagaagggg gaaaggtgat 120  
tggagacgcc acgtctagga gaagatgagt caagaacaag ctcaccacca tatgaagcca 180  
tggataagag cttgaacgta tgagaagata aatagagga gagggagaga aggggcacga 240  
aatttatgcc tcaaagagg tatgacctt gaagtgtaatt ttctcaaata atcaaagttg 300  
aaaattgcac acacatggcc tctatttata gctaagcgt tacacacaat cggagggaaa 360  
tttgaatttc tattcaaatt tcacttgaat t 391

<210> 926

<211> 304

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 926

agcttaaagg atactagggt aatttggtca tccatcctgg tgctaccaag atgtatcatg 60  
atttaaagac gatgttttgg tggeccaaca taaagagaga gggtattgag tttgtgtatg 120  
catgcctagt ctgtcagaag gctaagatag aacattagag accttcaggg aagttacaac 180

ccttatagat accctagtgg aagtgggaca gtatttccat ggatttnnnn ggtggactac 240  
 ctangacccc tatagggtta gattctatct gggttattct cnatagattg actaagnctg 300  
 ctca 304

<210> 927  
 <211> 376  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 927

ttgagccaat tcaaacgaca ataacttttt actcggttat ctgantgagt cctggaaaat 60  
 aacgagacgc tcgaaattga atgttgaacc tcagagcgaa ttcaaaccac aataactttt 120  
 tactcggatg tgtgattgag tcccgttaata tatcgagacg ctcgaaattg aatgctttag 180  
 ctttgagcca attcaccgca caataacttt ttactcggat gtctgattga gtcccgcaat 240  
 atatcgagac gctcgaaatt gaatgttgaa gctctgaacc aattcaaacg acaataactt 300  
 ttactcggga tggttgaatg aggcccgcaa tatattgaga ccctcgaaat tgaatgttga 360  
 atctttgagc caattc 376

<210> 928  
 <211> 325  
 <212> DNA  
 <213> Glycine max  
 <400> 928

agcttcaaca ttcaatttcg agcatctcta tatgttacgg gactcaatca gacatccgag 60  
 aaaaaagtta ttgtcgtttg aattagctca gaagttcaac attcaatttc tagcgtctcg 120  
 atatgttacg ggactcaatc aaacatccga gaaaaaagtt attgtcgctt gaattagctc 180  
 agaggttcaa cattcaattt cgagcgtctc gatatgttac gggactcaat cagacattcg 240  
 agaaaaaagt tattgccgtt tgaattggct cagagcttca acattcaatt ccagcgtct 300  
 cgatatatta cgggactcaa tcaca 325

<210> 929  
 <211> 439  
 <212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 929

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agctntaaca accatatgat gaaacacttt gctatcttgt actggtttgg ttgtgtttgg 60
cactccttaa attatgacaa atgatgtagt tccatgtaga gcttgtaggc cttggacctt 120
cttcattaat ggagtccttt tcttctagaa gatcaatggc agtggaatgg agaaggagga 180
aaggtcattg aagatgccac ttcaaggaga agatgagtca agaacaagtt caccaccata 240
ggaaaccatg gataagagct tgaaggtagg agaagatgag tagagggaga gggagagagg 300
gggccacaaa atttatgcct caaatgaggt ctgaaatttg aagtataatt tctcanatga 360
tcaaatttcc aaaaaatgca cacacaaggc ctctatttat atcctaagtg tcacacacaa 420
ttagagggaa atttgaatt 439
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<210> 930

<211> 429

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 930

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agcttctaaa cntatacaa gaatgattct ctgataccac ttgttggaca agtgggtctca 60
gatatcttaa gaaggggggg ttgaattaag atatcacaaa ctatttccct tattaataatt 120
ttatttcaact ttctattcaa gttataaatt cccttaaaaa tgaacttctt aaatattgat 180
tcaaatagag caatttgaat atgaatataa aacaataata aataaaggag ttttaagggaa 240
gagagattgc aaactcatat ttatactggg tcggtcacac ccttgtgcct acgtccagtc 300
cccaagcaac ccgcttgaga gttccactat cttgtaaaag cttattacaa gatctgaacc 360
acacaaggac aacccttcct ttgtgttcag atttctgtac aacaagagac cctcggtctc 420
ttaatcctt 429
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<210> 931

<211> 406

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 931

actcaagcta gtagcacatt caaaccacaa taactnttaa ctacgtatgt ctgattgagt 60  
 ccggtaattt atctagacgc tcataaatga atacggaagc acgtaacaaa tgcaaactgc 120  
 aataaatttt aactcagatg tccgaatgaa tcccgtaata tatcgagaca ctcgtaattg 180  
 aaaacagaag ctctaaacaa attctaacga caataacttt ttactcagat gtccgattgt 240  
 gtccagtaat atatcgagac gcttgaaatt gaaaactgaa gctctgagca aattcaaagc 300  
 acaataactt ttactcgga tgtatgattg agtcccgag tatatcgaga cacttgaaat 360  
 tcagaacaga agctctgagc aaatttaaac gacaataaca tttaac 406

<210> 932  
 <211> 431  
 <212> DNA  
 <213> Glycine max

<400> 932

agcttctttc aaaatgctac tcacaatatt gcggattctc ttgtccatct ccgtgtctac 60  
 ttccctagga attgttgcag ggctaggggtt ttcagcaatc ttactccct gttgtcttct 120  
 gggaaccagt gtctcagga ctgaagcttg accaggaatt acttgatgg gttggatgtt 180  
 gaaatctggt tgttctggt gcggagatga tggtagacgc ggtgaaccag aagcggaagt 240  
 ttcttttggg gaggaagcca tggaaaaaca cagcggttgg aatgatttcg taaatctcaa 300  
 aatactattg ggaaatgctg gtgaaaacac taatgctcag cagatattaa ttgaaatgaa 360  
 taatgtatag gggcgctga agcaacggtc aaatacgttt cgcttaatag tgaacgtgct 420  
 attaatgtta a 431

<210> 933  
 <211> 351  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 933

tgatgctctg atacctgttg ntaaacaagt ggctcagat atcttaagaa gggggggttg 60  
 aattaatata tgccaaactt ttctctctaa ttaagaatct atcttacttt ttactaaaga 120  
 tatgaattcc cttggtaaca atcttcttag atattgattc agctgaatca acttgaatat 180

gaatataaag caatattcca tcaaggagat taatggaata gagaatgcaa actcagtttt 240  
 atactgtttc ggccacaccc ttgtgcctac gtccagtcce caagcaaccc gcttgagagt 300  
 ttcactaact tggttaattcc ttgtacaagt tctaaacaca caaggacaac c 351

<210> 934  
 <211> 350  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 934

ntggagtttc caagtgccaa ttctgttttct tctttagtcc agtcttcttc tggtttcaat 60  
 tcatcagtgg gctttccttc tgtgtccagc atcttgggat gttcccagcc tttgatgaca 120  
 gctttccagg ttctgctatc cagtgatttg aggaaggcca ccatccttgc tttccagtat 180  
 tcatagttag gtccatctag gattggtggc ctgttcaactg gtcttcttc tttctccatg 240  
 ttcacagaa tttatctccc cagatctcac tctgtgattt cgagtgtgag ctctgatacc 300  
 aattgaaatt ctgataccag gggacagatg tctgaccgga tgtaacgact 350

<210> 935  
 <211> 398  
 <212> DNA  
 <213> Glycine max  
 <400> 935

tgtagcatat tcaaaccaca ataactgtta actcggatgt ctgattgagt ccggcaattt 60  
 atctagacgc tcataaatga atacggaagc acgtagcaaa tgcaaactgc aataaatttt 120  
 aactcagatg tccgaatgaa tcccgtata tctcagagac ctcgtaattg aaaacagaag 180  
 ctctaagcaa attctaacga caataacttt ttactcagat gtccgattgt gtccagtaat 240  
 atatcgagac gctcgaaatt gaaaactgaa gctctgagca aattcaaacg acaataactt 300  
 tttactcgga tgtatgattg agtcccggag tatatcgaga cacgtgaaat tcagaacaga 360  
 agctctgagc aaatttaaac gacaataaca ttttaactc 398

<210> 936  
 <211> 426  
 <212> DNA  
 <213> Glycine max

gcttctttca naatgtact cacaataaccg cggattntct tgtccatctc cgtgtctact	60
tcctaggaa ttgttcgagg gctagggttt tcagcaatct tcaactccctg ttgtcttctg	120
ggaaccagtt tctcagggac tgaagcttga ccaggaatta cttgtatggg ttggatgttg	180
aaatctgggtt gttcctgggtg cggagatgat ggtacagcgg gtgaaccaga agcgggaagtt	240
tcttttgggtg aggaagccat ggaaaaacag agcgtttggga atgatttcgt aaatctcaga	300
aaactattgg gaaatgctgg tgaaaacacg aatgccaaagc agatataaat ttgaatgaag	360
aatgtagagg ggcgtgtgaa gcaacggtcg aattcgtttt ggcttaatatg tgaacgtgct	420
attaat	426

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<223>      unsure at all n locations
<400>      937
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tgtaatcaat	tacacacata	ttgtaaatcga	ttaccatagg	agatnttcag	aaaatattct	60
caattgtctc	atcttttcat	ttggttcttg	aatggctatc	aaaggcctat	atatatgtga	120
cttgagacac	gaatttgcta	agagtttttc	agaacaaaaa	ggctcttatcc	tcttaaaaag	180
caaaatcggt	ttatcctctt	acaaattcct	tggccaaatc	acttgtgatt	caataaggaa	240
ttgtttgagt	gctcaaattg	ttcaatctat	ctctttcaag	agagatttct	tcttcttttc	300
ttctttattc	tgaaaaggga	ttaagagacc	gagggctctc	tgttgtgaaa	gaattctcaa	360
cacaaaggaa	ggattgtcct	tgtgtgt				387

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<223>      unsure at all n locations
<400>      938
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tgaatacata gctgcaagaa gttgttgtgc tcaaagtctt tggatgaaac aacaatgatg 60

taagctccat tggagcttgt aagcctaaga tcttcttcat caatggattc ctttgcttct 120  
 tggaagatga atggcagccg aatggagaaa ggaacagaga gatgagactc cactcgatga 180  
 gaagatgagt cttagagaaag ctcaccacca tatgaggcca tggataagag cttgtangaa 240  
 gaaggagatg aatgaacgga gagggagaga agagcacgan atattgtgct ctaaata 298

<210> 939  
 <211> 402  
 <212> DNA  
 <213> Glycine max

<400> 939

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 aagcattatc aaaatcctct cctcccaaga aagtgtcacc atttggtgct ttcacctgga 120  
 cacaaaaaag ttattagtga caatttccaa cattatttcc aattactggc tatgaaatat 180  
 aagcatagaa taaacaagtg ttaatacctc aaaaacacca ttagaaatct ctaagatgga 240  
 cacatcaaat gttccacctc caagatcaaa aactgcaatg agaccctcct tgttggttcat 300  
 cccataggaa agtgcagcgg cagtgggctc attgatgatt ctctgaacat caagaccage 360  
 aattctaccg gcatcttttg ttgcctgcct ctgagcatca tt 402

<210> 940  
 <211> 375  
 <212> DNA  
 <213> Glycine max

<400> 940

acaagtctcc tttgatgagt ctgatctcat tcttccaagg aaggattttt tagatgatat 60  
 ttcagatacc ttagaagata cacatattca tggaaatgac tctgaagaac aagatgaatg 120  
 aagctatgac gattctcaag ataatggagt tagaggaaat aatgatcttc cgcgagaatg 180  
 gatagcctca agagatcatc cctcgcacaa cattattggt gatatatcag aaggggtaac 240  
 aactagacat tctcttaaag agttatgcaa taatatggct tttgtatcta tgattgcacc 300  
 taagaatata aaagaagcga tagtatatga taactggata atttccatgc aagaagaact 360  
 gattcaattt gaaag 375

<210> 941



<211> 391  
 <212> DNA  
 <213> Glycine max

<400> 941

tgaaagtgca taccccacca tttttcatag taaaacactg gtaatgtgtc tactattatt 60  
 gagatcatat ctttctttgt cattggaggt gccacttgag ctgccaggtc tctccacctt 120  
 tgggcgtatt ctttgaaaga ttcgtgcccc tttttgcaca tgttctgtag ttgcatecta 180  
 tccggagcca tattagaatt gtattgatac tgcccaatga aggcaaccat taagtctttc 240  
 caagaatgga ctcgagaaag ttccaagtta gtgtactagg taacagctac cccgataaga 300  
 ctttcttggga agaaatgtat caacagtttc tcatcttttg cgtatgcccc catcttccga 360  
 caatacatct ttagatgggt cttggggcaa g 391

<210> 942  
 <211> 421  
 <212> DNA  
 <213> Glycine max

<400> 942

agcttgtaat ctattactag aagattttaa cgttttatta caaccttttag aaatttgaat 60  
 tttaaatttta aagcctgtaa ttgattacaa cttgtgtgta attgattacc aacatgagaa 120  
 ttcaaatttc aagtctgaag agtcacaact cttcagaaat taactgtgta atcgattaca 180  
 acagttatgt aatcgattac caataaggaa ttttcgaaaa taactcccaa gagtcacaac 240  
 tgttcaaatt ttttttgaat ggtcatcaat ggcctataaa tcaattacca gacatgaaaa 300  
 ttcaaatttc aagtctgaag agtcacaact ctttagaaac taattgtgta atcgattaca 360  
 acaattatgt aatcgattac cagtaacgaa ttttcgaaat aacttccaag agtcacgact 420  
 a 421

<210> 943  
 <211> 432  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 943

agctntntat tntcagtaga tgaagattta tctgtggcca cctcatggac tcctctaagg 60

acaataccat catttcttgc actgaattgt tngagttgg aagccatctt ctcaatcaaa 120  
 ttcctagcct caacaggggt catatcacca agagctccac cactgggagc atcaatcata 180  
 ctectctcca tgttgctaag tcccttgtag aaatattgaa gaaggagttg ctcaaaaatc 240  
 tgggtggtgag gacagcttgc acacaatttc ttgaatcttt cccagtactc ctacaagctc 300  
 tctccactaa gttgcctgat gcctgaaatg tcttttctga tggcagtggt cctagatgca 360  
 aggaagaatt tctccaagaa caccctctta aggtcatccc agatgaaaat ggacctggga 420  
 gcaaggtagt at 432

<210> 944  
 <211> 417  
 <212> DNA  
 <213> Glycine max

<400> 944

gcttggtcag aaatgtgcat ttgtgtgtaa tacacaatta atgggttcacc acaacaaaat 60  
 ggtgtatcag aaaggcggaa tagaacttta atggatatga ttaggagtat gttaatcaat 120  
 tagactttat ccgtatcctt gtggatgtat accttgaaaa ctgccatgta gttggtgaac 180  
 aggattccta gtaaggtagt tccaaagaca ccttttgagc tgtagacaaa taggatacct 240  
 agtataaggc acctgcatgt ttgggggttgc caggcagaaa taaggattta taatccgcaa 300  
 gaaagaaaat tggatgcaag aacaatcagt ggatatttca ttggttatcc agaaaagtca 360  
 aaggggtata tgttctattg tctaatcat agtatgagaa ttatcgaaac tggaaat 417

<210> 945  
 <211> 371  
 <212> DNA  
 <213> Glycine max

<400> 945

ctcaagctta acaaaatata aatctaggag cttctaccta tgtattataa acaaatttaa 60  
 attaaaactc atggagagtt tagtaaggga actcagaaaa atagccccgt aaaataaaac 120  
 tcatggggtg cctctcaca aagggggtcg cagtgaccag gcttgggcga ctggttatca 180  
 aaaacacagg tgttcacaaa ggcataagat catttatggg ggcttagatg taatctggaa 240  
 tatgagagat gttaaagaa aggaaaatgg actccatttg gataaaaata actactttct 300

ttagacgcct tttttttgcc tagattcttc acaacctatc taagtgggta agctactttc 360  
cgcgttttat a 371

<210> 946  
<211> 404  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 946

agctntgaag gtgcgtagtc caccactttc cctagtataa tactggtaat gtgtctacta 60  
tcattgtcat cgtttttttc gtcattgagg tgccacttaa gttgccaggc tctctccacc 120  
tttgggcgta ttcttttgaa agaatcgtgc cccctttttg cacatgttct gtagttgcac 180  
cctatccgaa gacattatac tgacactgcc taacgaaggc aaccactagg tccttccaag 240  
aatggactcg agaaggttcc aagttagtgt accaggtaac agctacccca gtaagactnt 300  
cttggaagga atgtatcagc aattccttat cttttgcgta tgcccccatc ttgcgataat 360  
gcatcttttag atggctcttg gggcaagtag tcctctcgga cttg 404

<210> 947  
<211> 294  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 947

agctntgata aagaaggcga tgggatgttc ctattgtgac aaaaccgccc ccattccgac 60  
tctcaacgcg tttgtttcca ctgtgaatgg aaggctgaac tcatgcaagg ccagcacagg 120  
cgccgctcgac aatgcatgtt tgagattgtc aaaggccaaa tgagctngcg ggggtccagtg 180  
gaagggatca acantgatga actagactaa cggagttgca atcgttgcat atccactaat 240  
gaagcgacga taaaatccta ccacactaan gaagctttgc acagctttta tgga 294

<210> 948  
<211> 393  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations

<400> 948

tactcccgct taataagtgc atntgatgta gctccatgta gagcttgtag gccttggatc 60  
ttcttcatca atggagtccct ttgcttcttg aatatcaatg gtagcggaat ggagaagggg 120  
gaaaggtgat tggagacgcc acgtcaagga gaagatgagt caagaacaag ctcaccacca 180  
tatgaagcca tggataagag cttgaacgta agagaagata aatagaggga gagggagaga 240  
aggggcacga aatttatgcc tcaaagagg tatgacctt gaagtgtaat ttctcanata 300  
atcaaagttg aaaattgcac acacatggcc tctatttata gcctaagcgt tacacaaaat 360  
tggagggaaa tttgaatttc tattcaaatt tca 393

<210> 949

<211> 421

<212> DNA

<213> Glycine max

<400> 949

ttagaaaatg atttctatac caaagttagt cgtataatgc aactaacaag gatgaagctt 60  
taagtgtgat tcctttcttt ttcttatcat tctcctcatg ttgattcagt ctcattagat 120  
ccatttcgtg ttctataaac tttccaaata aagttgcaag agacatgtta gaaagatccc 180  
ttgattctgt aatagttggt acctttgggt gtcattccct acttaaacat cttagaactt 240  
tattaataag atcctcattg ggaaatatct ttccaatga tgcaagatga ttactatgt 300  
gtgtgaatct cttttgcata tcatgtatag tttcatttgg attcattcta aacaattcat 360  
attcatgggt taaggatattt attctagacc cttttacatc tatgggtcct tcatgggtta 420  
c 421

<210> 950

<211> 398

<212> DNA

<213> Glycine max

<400> 950

tgaaggtagg agaagatgag tggagggaga aggagagaaa gagcacgaaa ttttatgcct 60  
caagtgaggt ctaaaatttg aagtgttaatt ctcaaatgat caaagttgaa aaaaatgcac 120  
acacatgacc tctatttata gcctaagtgt cacacaaaat aggaggggaa tttgaatttc 180

tattcaaatt tcacttgaat ttgaatttaa attggtggag ccaaatttgg agccaaaatt 240  
 tcactaatta tgattagtga attgtagcta tgattcaacc cactaatcca agatcaagtc 300  
 caagattctc cactaagtgt gcttatgtgt catgaggcat gtaaaacatg aaggatatgc 360  
 acaaagtgtg actatatgat gctgtaatgg ggagtagc 398

<210> 951  
 <211> 383  
 <212> DNA  
 <213> Glycine max

<400> 951

agcttcttgg caatcccat tccagcgatc agtttggttt ttgcgtaaga gcttgaacaa 60  
 cggctcacia atggcgggtga gctgtgatat gaatctggca atataattca agcgtcccag 120  
 gaagcctcgg acttgccctc cagtacgtgg ttctggcatc tcaaggatgg ccttcacctt 180  
 ttccgggtct acctctatcc ctttctggct tacaatgaaa ccaagcaatt tccctgattt 240  
 gaccccaaag gtacacttgg cggggttcaa ccttaactga tatttcttaa gcctttcgaa 300  
 caactccgc aggttgacaa ggtgttcttc ctacagattta gatttagcaa ttatgtcgtc 360  
 cacgtagacc tcgatctctt gat 383

<210> 952  
 <211> 421  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 952

agctntataa gcaaaaagta aaaatctatc atggcgaaaa gctatcaaaa aggaattttt 60  
 agcttgggtca acaggtattg ttatttaatt cttgattaag attgtttcca agtaagctga 120  
 aatccaagtg gtctagacca ttcatcatca aagaagttat gccatatgga gcagtgatat 180  
 tggaggaccc aaccaccaa aggacatgga ccgtgaatgg tagaagaatc aaacactacc 240  
 taggtggaga tttcgagagg ataactactg ttgtccagat gcaaaaggct tgaaccataa 300  
 cgaagacgtc caattataaa gacgttaaag aagtgtcttt gggaggcaac ccagtgtttt 360  
 ttaaactttg tcttaacttg tgttacttta atcttatgcc ttatatatct aanacttact 420  
 t 421

<210> 953  
 <211> 409  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 953

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agctttataa gcaaaaagta aaaatctatc atggcaaaaa gctatcaaaa aggaattttt 60
agcttgggtca acaggtattg ttatttaatt cttgattaag attgtttcca agtaagctga 120
aatccaagtg gtctagacca ttcacatca aagaagttat gccatatgga gcagtgatat 180
tggaggaccc aaccacaaa aggacatgga ccgtgaatgg tagaagaatc aaacactacc 240
taggtggaga ttctgagagg ataactactg ttgtccagat gcaaaaggct tgaaccataa 300
cgaagacgtn caattataaa gacgttaaag aagtgtcttt gggaggcaac ccagtgtttt 360
ttaaactttg tcttaacttg tgtactntaa tcttatgcct tatatatct 409
```

<210> 954  
 <211> 374  
 <212> DNA  
 <213> Glycine max

<400> 954

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agcttcttat accaatgtca cgaggagtgt ggtagtcaga ttcacatcaaga aggagctaata 60
ttgtcgatgc ggactcccta ggaagatcat cactgacaat ggcaccaatc tgaacaacaa 120
gatgatgtag gaaatgtgcg aggatttcaa gatccagcat cataactcca ccccttatcg 180
tccaaagatg aatggggctg tagaggctgc aaataaaaat attaagaaga ttgtccagaa 240
gatgaccgtg tcatacaaag attggcatga gatgttgctt ttccgcctac atggatatag 300
aacttcagta cgaacttcta ctggggcaac gccgtattcc ttggtttata ggatggaagc 360
aatactccta ttg 374
```

<210> 955  
 <211> 338  
 <212> DNA  
 <213> Glycine max

<400> 955

agcttggaat atggcagggc aatcttgcta aaatcctgga tgaatctctt ctaaaaactt 60  
 gcatgtccga gaaaagaacg tacttcctgc atagaagcga cgtaaggaag agaagtaata 120  
 acatcgatct tggccttata aacctcaata cctttactaa agaccaaagc ccctaagact 180  
 atacctttat ggaccataaa atgacatttt tcaaagttaa aaacaaggcc aatctcaatg 240  
 cattgggtcaa aaaatctaga gaggtacttc aagcaaccca cttgagattt ttcactccct 300  
 ttgtaaaaat cgtttacaac ttctgaacca cacagggga 338

<210> 956  
 <211> 423  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 956

agctnttagg cagtaaaata gtataaaatc taatgaaaga aaaaataagt tggaggaaaa 60  
 taatcataag ctacaaatgt tcaatttcat aaaaaataac ttttttctta gaaagaaaag 120  
 cattttgtaa atttaattta ggattccaaa tatccaactt aattgtttcg gaaaaaactt 180  
 aaaaaaaaaac agttaaattt ttagattatg agttctccca aacattttta tcacataacc 240  
 ttatatttcc tagattaata cttaaccttt ctactatttt tgtccctttt ttttctctct 300  
 tcttcaatca atttaattct ctacaaatct tatctaatat tatcaagtgt ctttaatttag 360  
 tcatatttac tatatttttt taaataaaat gtttaataaa aaaattaatg aaacatataa 420  
 agc 423

<210> 957  
 <211> 417  
 <212> DNA  
 <213> Glycine max

<400> 957

agcttcttag tcttggctga tgaagatgaa ttcgtgttta cttcatgcac tctctaatg 60  
 acaatagcat catcacttct atcactaaat tgatgggagt ttgaagccat cttctcaatt 120  
 aaacttctgg ctttaagtagg ggtcatgtct ccaagggctc caccactggc agcatctatc 180  
 atacttctct ccattgttact gagtccttca taaaaatatt ggaggagaag ctgctcaaaa 240  
 atctgggtgg gagggcaact ggcacatagt ttcttaaata tctccagta ttcatataag 300

ctatctccac tgagttgcct aatgcctgaa atatcctttc taaaggttgt ggtcctggaa 360  
 acacgataat attttctaaa aagaatactc tcttgaggcc gcccatctcg tgatgga 417

<210> 958  
 <211> 418  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 958

tagtaaatat ggtccaatga aggaggtgaa gttttattga gaaggcaaat gggaagtcca 60  
 atggctattg tcaagttgag ttatttgacc cttttgctgc tactacttgc aaggaaggga 120  
 tgaatggatt ttttttaatt ttaatttaatt ttttcattct aaattaattt taatttaatt 180  
 aaaatatgat gttatatcag atgacaagtg gtcagcatat atgtcacact taatctaacg 240  
 tgatatcaca agtagtttgt cgacgtatca aataaataac cacatcagca attaatggat 300  
 cctttntaac gacagagacc tcatacaaaa ctttttaaatt atagtgaccc atctcannaa 360  
 tgaaaaatta tgaggaatca aatgtaaaat tcaagtatat atcangggat caaaatat 418

<210> 959  
 <211> 440  
 <212> DNA  
 <213> Glycine max

<400> 959

ctcaagcttg taggctacat ttacaaccat acattggctt tgaactctat gaggaaattc 60  
 acactttaaa ctgaattaga gacatggagt tacaagattt gctaccactt tcttaacttt 120  
 gcaaagattg cataagcaaa aggccaatct tagaaggatg tttaattcag atgaatggtt 180  
 gaagtctaag gcagctaaag agcccaaggg gaagcaagca acagatgttg ttcttatgcc 240  
 atcattttgg aatgatgttg tttatgcttt aaaggctatg gggcctcttg taagtgtggt 300  
 gaggttggtg gataatgaaa aaaaacctac aatgggtttc atttatgaag caatggatag 360  
 ggccaaagaa gcaattcaaa gagctttcaa taacaatgaa gggaagtata aggatatcct 420  
 ttgcatcatt gataaaagat 440

<210> 960



<211> 366  
 <212> DNA  
 <213> Glycine max

<400> 960

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agcttatctg ctataagtta gaagctaaat aactaaaagc ttatattctc tagctgattt 60
aatttacagt atttaataag actaatatth aaaaaatata aatgtcaaht gatgaaaaat 120
tatatatthta ttattttctaa catttaaat ttatgtctaa taaatttcat cttaaaaaagt 180
aggtaaaatt ttaatctctt tttgttgagg tttcaatgct atacaatgga ttatgcataa 240
ttttgatatt tttatcatca actctgattt agaaaccaa tattttaacc ataaatccaa 300
ataaacaatg caataattca ttaaaataaa tagtttgaca ttaaataaat taataaaaaa 360
gtagaa 366
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<210> 961  
 <211> 278  
 <212> DNA  
 <213> Glycine max

<400> 961

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tgaattgaac aatggaagat cttgagaaat tcaatcggtc ttaacttttc actcggaagt 60
ccgattcacg cgcataatat attgagacgc tctcgtgaaa ttcaaattgg cataactttt 120
cactcagagg tccgattcat gcgcataata tatcgagatg cacataattg aacaacggaa 180
gctctcgaga aattcatatg gtcatacctt ttaactcgga gctctgattt aggcgcataa 240
tacattgaga cgctcgaaat tgaacaatgg aagctctc 278
```

<210> 962  
 <211> 383  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 962

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agcttattgg atagaatact ccaagaggat tgggctagag cagctaaaga aggccctagg 60
attctcatga acctcanggt aaaattttga gcccatgggc caaggctggg tccactcttc 120
tttgtaaata ttagaatagg ttttctttct tttaggggtt gtattttgat gcaatnctac 180
cccttaagct tattggatag aagactccaa gaggatcggg ctagagcagc taaagaagge 240
```

tctaggettc tcatgtacct cagggtagat ttctgagccc atgggccaag gctgggtcca 300  
 ctcttctttg taaatattag aatagtgttt ccttctttta ggccttgat tttgaccatt 360  
 ctagtagtat aggaatttac cct 383

<210> 963  
 <211> 374  
 <212> DNA  
 <213> Glycine max

<400> 963

agctttggct attcaactat cataattttt gactcgaatg tatgatcgat gccgattata 60  
 tateccgaca ctcaaatgg aacaacagaa gctcttgaga aattcaaatg gccaaaactt 120  
 ttctctcgga tgtctgattc acgtgcattt tatatcgaga ccctcgaaat tgaacaggga 180  
 agttttggca aatatcaatg gccatatttt ttagtcgaat atatgatcga cgcccatgaa 240  
 atatcgagac gctcaaaaat gaaataagac agctcgcgag aaattgaaat gggtataact 300  
 gtttacctgg atgtgagatt tacgcgcata atatattgaa gttttgaaat tgaaaacgaa 360  
 aagtgttggc taat 374

<210> 964  
 <211> 381  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 964

agcttatttt catcaaatct tatgttaata acttcttcaa ctaccaaggt tcttgagtta 60  
 tacactctga gtgcctttga agtttgaaag tatccaagaa atatctcatt atcacttttc 120  
 gagtcaaatt ttcccaagtt gtcctttgtg ttgagaataa aatatttgca tccaaatgga 180  
 tgaaaatatg ttatgttggg tttcatccct tccataattc ataaggagta tttttaaggt 240  
 taggtcttat gtaaattctt ttttgaagat aacaagtagt attcactgct tcaaccaga 300  
 agtgtttaag gggtgaatta tcattaagca tgggcctagt catctcttgt agatatctat 360  
 taattntttc aattaccct g 381

<210> 965

<211> 421  
 <212> DNA  
 <213> Glycine max

<400> 965

tatcataggt ggggtagttg agggaggcac tatgaatttt ttcactaaaa taatttatag 60  
 ggtgcccacc ttgtaacaat acagctccaa ctcccactcc agtggcatca cattctagct 120  
 caaaaaggttt agaaaagtca ggaagagcta gaacatgttc cttattaagc ttttctttga 180  
 gaaaagcaaa ggcttgctct tgtttttcac ccaagtaa at gccacattct ttttactag 240  
 ctcatgaga ggtgatgcaa ttgtagagaa attaggaacg aaccttctat agaagcttgc 300  
 taacccatgg aagctcctaa tatctcccac actttttggg gtggggccatt cttggatggc 360  
 cttgatattc tcagggtcca cttggacccc atttctacca actaccaacc ctaagaaact 420  
 a 421

<210> 966  
 <211> 412  
 <212> DNA  
 <213> Glycine max

<400> 966

agcttgaaga gaatggaaga gggaggatat taaaacttga gatagcaaca tggaaagaaa 60  
 tgaaggtgtt tatgaggaag acattcttac caccttcttg tgagaaagat gcttatgaaa 120  
 ggcttcaaaa cctcacacaa ggtagcaaga gtcttgaaga gtaccatcaa gaaatgataa 180  
 tgactatgag gagagcta at tacaagagcc taaaacttcc atggcaaggt tcctatgtgg 240  
 gcttaataga gacattcaat gcattgtgaa gttgaagcac tatgaaagtt tggaggatat 300  
 ggtgcagaaa gccaaagaa gggagagaca acctgagagg aagcattcct acaagaagac 360  
 ctatcactat gacttttcta gtggtaaaga caagtccaag aaggagggat ct 412

<210> 967  
 <211> 361  
 <212> DNA  
 <213> Glycine max

<400> 967

tgccgcgaca cctaaattcg atgtacggca aatcctcatg cgggatcagt tggaacatgg 60

atgccagagt ggcaagggca tcggccatct aattctccac tctggggatg tggtgaaagg 120  
 atacatcatc aaagtactct atcagttttc taatgtaggc ctggtagggg atcaacttat 180  
 gatccctggg ctectattct actttcaatt ggtggattac caaggctaag tccccatata 240  
 ccttgagcaa cttgaacctg aagtcaattt ccgcttggat cccaagggca tacgctcat 300  
 attcagccat gttgttcgtg cagtcaaagc ccaacctagt cgtgaagggg atacattgat 360  
 c 361

<210> 968  
 <211> 403  
 <212> DNA  
 <213> Glycine max

<400> 968  
 agcttgacac aatttatctt tctcaaactt gagtttctga agaccaatta ctaagtcttt 60  
 cgtaactaga tgagtttagat tatgcatatt agtatgtgca gtcctacaat gccacaacca 120  
 tgaatcatct attttactca ccaagcaact aagctcatga aaagatgcat gctcaatatt 180  
 cagcatatag atgttaccta ttctcttacc aagggtggaca actttaccgg atatggcttc 240  
 acttatcaga caacaatttt tgttgaattc aatcttgaca cctttatcac aaagttgact 300  
 aatgcttata agactatgct gtagtccatc cacatataac acattcttta tctgattttt 360  
 gaggtgatcc cctatatctt cttctcccat tatattacct ttg 403

<210> 969  
 <211> 377  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 969  
 tcaatttget tggatagcaa cttgttatgt gccacaatg catcatatga tgaaagttcc 60  
 agcacgcttc ttttggttgg gatgtccttc agcagctctg gactctgtga agtatttctt 120  
 caagaatctt tcaaccactt catcccaagt ctttaagacta ttaccttta atgaatggag 180  
 ccattcttgt gcctctccag acatggaaaa tgaaaacaag ctcaatctaa cagcatcttc 240  
 atgcacgcca gccagtctga cagtgttgca aatttcaata taagtggcta gatgtgcata 300  
 caggctctct tttggcagac catgaaacan attgttctta atcaactaaa ttaatgaatg 360

tggatagggtt atatddd

377

<210> 970  
<211> 412  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 970

tatgctgcaa acatttataa tagaccctct cagtagctta accaacaaca atataataat 60  
tatgatcttt caagcaacag atataatcca ggttggaaga atcatccaaa tctgagatgg 120  
gcaagtcttc cacaacaaca acagcctgtc cctcctttcc agaatgctgc tggttcaagc 180  
aggccatatg ttctctctcc aatgcagcag caacaacaac aacaaagaca acaagcagct 240  
gaggccccct ctcaaccttc cttagaggag ttagtgaggc aaatgatcat ccagaatatg 300  
caattntagt aagagacaag agcctccatt cagactctga canattagat agggcagatg 360  
gctacttagt tgaaccaagc tcagtcccaa aattctaaca aattgtcttc ac 412

<210> 971  
<211> 404  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 971

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ctgcagattt cataagcaat gcatttagta tggttacttg gtaggtttta attttcaata 120  
aaagtaatta attttttag aatttaattt tttatgcaag gtcaatgtga gttcttggtta 180  
cacaaatgta attcatttta ttaccatatt acccaattca ttaatatgat gcagtgaatt 240  
tgtattaaaa aaatatactt ttaattatat ataatataga agtttttagca tttagcaact 300  
cactctttta cacattttta tataagaaat tntattatac gttaaaattt attanaaaat 360  
ataaaagaaa aaagactcac aaaaattatg aattttaatt aatt 404

<210> 972  
<211> 404  
<212> DNA  
<213> Glycine max

<400> 972

tataatatat tgatatgctc gaaactaaac atcggaagct ctcgagaaat tcaaattggtc 60  
ataacttttc acacggatgt ccgattcggg tgcataatat gtcgagatgc gtcaaagtgt 120  
aacaacggaa gctctcgtga aattcaaattg gtcataactt ttcacactga tgtttgattc 180  
aggcttataa tataacgata cgctcgtaat taaacatcgg aagctctcga gaaattcaat 240  
tggtcatcac ttttcacacg gatgtccgat tcgggtgcaa aatatgtcga cagctcga 300  
attgaacaac ggaagctctc gagaaattca tatggtcata acttttcact cggatgtccg 360  
attcaggcgt atcacatata cagacqctca caatttgaca acgg 404

<210> 973

<211> 398

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 973

tggtcacctc ctttntcacc acatctagaa tgatgggggt gagtcgttgc tgtggctgcc 60  
tcaactggctt agctccatcc tctaaaagta tcctatgcat gcaggtagat gggctaattgc 120  
caagaatgtt ttctaaagtc catccaatgg atttcttgtg cttcttgagc actagcagca 180  
acttctctc ttgctcagta gcaagggagg canagatgat cactgtanat tnttccttgt 240  
cctcacagta agcatacttg aggtttactg ggaaggactt caactctggt gtgggtggtg 300  
gctgaacagt gngaggaacc acngtaggag aagaagaaaa acgttctcgg cttgtacctc 360  
ataaagcaag taagaagata tgtaccttct gcaacatg 398

<210> 974

<211> 365

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 974

tattgggcat taaagttttt gaacttcgat tcanatgcat ctagtgaaca caggaagctc 60  
ccactccatg anatggaaga attgtggttt ccagcttatg agaattccca gctttataag 120  
caaagaagta aaatttatca tgacaaaaaa gttgtcaaaa aagaaaattt tcagctttgg 180

tcaacaagta ttggtattta attatagatt aagattgttt ccaggtaatc tgaaatccaa 240  
 gtggttcgga ccattcatca tcaaagaagt tatgccacat ggagcagtga tattggagga 300  
 cccaactacc anaaggacat ggaccgtgaa tggaacataa taaacactag ttagatgata 360  
 tttca 365

<210> 975  
 <211> 380  
 <212> DNA  
 <213> Glycine max

<400> 975

tgtaagaatt gcaagatcat ctcccttgac aactccttga taattattgc catcaatacg 60  
 cagagatgac aatttagaga gtgatccaat actttcaaat ggatttcac tgaatttatt 120  
 aatagacaga ttgagatata ttaatgatga aagttttcca aatgatattg gaagagcacc 180  
 accaattaag ttgttggaat aatctagcat gtcaatattt ttaaaagccc caatttgatc 240  
 tatcagattg cctgaaagtt gtgaactccg aactgcaagt gttgtgattc cctatgaaat 300  
 acaaggagca agaatttcta aaagttcatt aacctgttgg ttgagtttga gatatgataa 360  
 acctatcttc cttaagttgc 380

<210> 976  
 <211> 389  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 976

agctngctcc actatatttg gattggatca taaagtttgc acccctgaat caataacatt 60  
 ntgttcactc attgatggct tggccagaca tggcaagggtg aatgatgcct atatgcttta 120  
 tgaaaaaatg ttagattatg gtcagactcc aaatgcagtg ttgtatacat cccttattag 180  
 gtactttttc tcgtgtggta ggaaggaaga tgctcacaaa atttataaag agatgatgta 240  
 taagggtggtg tctcctattc cttgctcctt aataattaca tggattgtct tttcaaagct 300  
 ggtgaaattg agaaaggatg ggctctattt caagagataa agcctcaagg tctaacttct 360  
 gatgtaagac gtattcaatt tttattcat 389

<210> 977  
 <211> 409  
 <212> DNA  
 <213> Glycine max

<400> 977

agcttaaaga taaattaaga ataatgattg aatatcttat cttatattct gataatatat 60  
 tctatcaaat acaaactgat tagttaggct aaaaatactg atataaatatc ttatcatata 120  
 ttctataact cgtaaattac cccacaaaaa ttatttactt cgaaatcttc tagctgaaat 180  
 ttcttgagaca aatttccaaa ttcaattgta agcattatta tcacagtttc agataaaaca 240  
 aaaataacat tacctctcta ctcttataat ccatacaaaa attatcatat taaggctatg 300  
 caacttcttc tgaattcttt ttaaccactt gatcaagcat aattaaaata tccaatatcc 360  
 aatgtcaatg gataaaaaca tgtagaatgg gagtataatt ctacatgtt 409

<210> 978  
 <211> 333  
 <212> DNA  
 <213> Glycine max

<400> 978

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 atcgagacgc tcgtaatgga aaacagaagc tcgtataaaa tgcaaatcgc aataactttt 120  
 aactcggatg atcgagtggg tcccgtataa tatcgagaca cttgaaattg aaagcagaag 180  
 ctctgagcaa attcgaacga caataacttt tgactcggat atccgattga gtcatttaat 240  
 aattcgagac gtcacaact gaatacacia gctctaagct tattcaaatg acaataactt 300  
 ttgactctga tgtccgattg aggcattata taa 333

<210> 979  
 <211> 305  
 <212> DNA  
 <213> Glycine max

<400> 979

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 gtcaaaagct attgtcgttt gaatttgctc agagcttctg cttgaaattc gagggtcttg 120



atttattacg ggactctatc gatcatccga gttaaaagtt attgtctttt gaatttgctt 180  
 agagttactg ttttcaattt cgggcatctc gatatactac aggactcact tccacttttc 240  
 agtaaaaagt tattgccatt tgaattttgt gagagcttct atattcaatt tcgagcgctc 300  
 tgaat 305

<210> 980  
 <211> 396  
 <212> DNA  
 <213> Glycine max

<400> 980  
 agcttgtgca tccaatacct tgatgaggat gtcccatatg ttcttaagac tggactgatt 60  
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 tgtcacattg tctgctccac catgaaaccc ccagatgtcc aagaggatca catattttctg 180  
 aaggcttttc ctcatcatt agagggagtg gcaaatgact ggctgtatta ccttgctcca 240  
 aggttcatca cgagctggga tgaccttaag aaagtattct tagaaaaatt tttccctgct 300  
 tccaggacca catccattag gaaggatata taaggataaa gacaactcaa tggagagagc 360  
 cttgttgagt actgggagag attaagaaac tatgtg 396

<210> 981  
 <211> 240  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 981

agcttntcgg tatattatgc acctgaatca gacctccggg tgacaagtta tgaccatttg 60  
 aattttctga gagcttccgt tgttcaattt cgagcgtctc gatatcttat gcgcttgaat 120  
 cggacctccg agcgaaaagt taagaccatt tgaattgctc aatagcttcc actattcaat 180  
 ttctagcgtc tcgatatatt atacgcctga atcgacctc cgagtgaaaa gttgtgacca 240

<210> 982  
 <211> 257  
 <212> DNA  
 <213> Glycine max

<400> 982

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tctcgagagc ttcgatggtt ctatttcgag cgtctcgata tattatgcac ctgaatcgga 120  
cttccttggtg acatgttatg accatttttag gtactcccga gattctgggtg ttcaatttca 180  
caatttctga tatattatgc ggctgaatca gacttccgtc tgaagagtta tgaccatttg 240  
aatttatcgg gagcttt 257

<210> 983  
<211> 302  
<212> DNA  
<213> Glycine max

<400> 983

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gaatttctcc actgtattcc gtgtgacaag atatgaccat ttgaatttct cgatagcatt 120  
cgttgttcaa tttcgagcgt ctcgatatat tatgcgcctg aatcggaatt ccgtgtgaca 180  
agctatgacc atttgaattt ggcgagagca tgcggtgata gatttcgagc ggctcgatat 240  
attatgcgcc tgaatcagac attcgtgtga caagttatgc gcatttgaat ttctcgagag 300  
ca 302

<210> 984  
<211> 414  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 984

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cctactttta atggagaggg ttaccattac tggaaaaccc aaatgcaaatt cttcattgag 120  
gcaatagact taaacatttg ggaagccgta gaagtacggt cttatgtacc cactatgggtg 180  
gctggaaatg caacaataga aaaacctaca gaagagtgga ctgaagatga aagaagatta 240  
gtgcagtaca atttaaaggc taaaaacatc attacttttg ccctaagaat ggatgaatat 300  
tttagggttt caaattgtan gagtgctaag gatatgtggc acactttaca agttacacat 360  
gagggcacia ctgatgttaa acaatctang atacatactn taactcatga gtat 414

<210> 985  
 <211> 404  
 <212> DNA  
 <213> Glycine max

<400> 985

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agcttcatgc ttaagtatgt atggcaaaat cttattactg ttgttcaaga catacaagtg   60
agcttgtaac aaatcttcta gacttggagt gatcacatgt agtcctcttg aacccttacc  120
acccactcag gaaggccaac aggttttagc ttctcaatgt attttgaaca aaattcaatg  180
gcttcttctg caatgtacct ttcaacaata gatgcttctg gatgatatag attctttgta  240
taccctttta agatcttcat gtatcgctca accgggtaca tccaccgcaa ataaacagga  300
ccacaacatt tgatttctct taccagatgc acaatcaagt gaattgtgat gtcaaaaaaa  360
gcagggggga aaatacatct ccaactggca cagtataatt ggga                      404
  
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<210> 986  
 <211> 369  
 <212> DNA  
 <213> Glycine max

<400> 986

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atggcatgat ttctggcgct aaactgctag gagttggagg ccatcttctc aattaaattt  120
ctagcttcag caggagtcac gtctccaagg gctccaccac tggcagcatc tatcatactt  180
ctctccatat tactgagtcc ttcataaaaa tattggagaa gaagctgttc tgatatctga  240
tggtggggagc aactggcaca tagtttctta tatctctcct agtactcata caggctctct  300
ccactgagtt gtctaatacc tgagatatcc tttctgatgg ctgtggtcct cgaagcaggg  360
aaaaaatatt                                     369
  
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<210> 987  
 <211> 332  
 <212> DNA  
 <213> Glycine max

<400> 987

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agcttggggg agccttgatg ctctcatagg gaggcttagg gctgcttatg aggaaaatgg   60
  
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tgggtcecca gagactaacc cttttgcaag tggctccatc aaggtgtatc tcaaaaaggt 120  
 tagggagtgc caagccaagg caagaggtat cccttacaag aagaaaaaga aggcctcaaa 180  
 tcaaagcaag ggaaatgatg aatcatcctc caccatgcac ttctcttgaa caacatcttc 240  
 agtatcgatc cttttggacc tttcaagtca tggtaattaa ttaattaact aatcttgctt 300  
 gccatcacac tcatgatcat aaactatgct ta 332

<210> 988  
 <211> 412  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 988

gtaaccccc ttntaaatga taggcttaga atgcagatta agacgaagaa gaagaagaag 60  
 aagaagaaga agacgaagaa gcaatcaatt taacaatggt cttttaaatg cgtaagatca 120  
 aattgattgc gataaaataa atgagataag ggaagagaga aatgcaaact caatttatac 180  
 tgggtcggcc acttctctgt cctacgtcca gtctcaatc aactcacttg atattttcac 240  
 taacttcgta aaaaaacctt tttacaactt ctgaacaccc aaggaatccc tttcccttgt 300  
 gttcangaaa ctcaaatc aagagacaac cagtctcttg attacaactt actttctgag 360  
 atgaatataa agatttctct ccttttagagt ggataatata acttgatggt ct 412

<210> 989  
 <211> 400  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 989

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 ctcaagccag gagtaccttc acttctatac ctctcagtgg ctgacaaagt tgtaagctta 120  
 aaccttgtag aggaggacgg gaaacaccag ctteccatct attttaccag tcgtatcctt 180  
 catgatgctg aaaagtggta ccagatgata gagaaggtag tgctggcact cataacctca 240  
 gatcgacgcc tcaggttgta ctccaaagt caccaagtgg tagtcaagac aaactaccct 300  
 gtcaaacagg tgttgtgaaa gcctgaactg gaggaatga tggattatg gtctaagtc 360

gacccaagct aggagtacct ttacttttat acctctcaat

400

<210> 990  
<211> 335  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 990

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cgatctatgt gccgaanagg gtttaaaact acaggggtggg ttaggctatt ttaattatat 120  
gctatcttgc tattttgaat tttcttcgaa ttgggtattt tgttttgata tttgaaatag 180  
ctcatctttg aagagtgata tgtacaaacc ccaatttgct gggttttag atgtggattt 240  
ggccgcagat aagaacattt ttcttaagag ttgggtatgt gaaaattcaa ttcatttggt 300  
gcttatatat agccattatg agctcgaana tacta 335

<210> 991  
<211> 316  
<212> DNA  
<213> Glycine max

<400> 991

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aaggatgtgc ggctctcatc aatgaggacc tgtataacat gcctcagcct atttgctaatt 120  
aacttagcga tcaccttggg catacaccca atcaaagaaa tgggggttgat atcatcaaaa 180  
gactgatggg gattaactgt gggaagtaaa gccaaaagag aaacattact gcctataggg 240  
aatcttccat gcacaagaga atcatgtaca aatcttctgg agtcaattat taccactccc 300  
cacaattact taatga 316

<210> 992  
<211> 318  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 992

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aactcttgta aatgggagag aaatgttcat ctaaagcata caagtccta atgttatcaa 120  
atcctaaaat ttgagctcct atggagcaaa acaatgtgtg tctcctaaag agggcatcaa 180  
ctacaacatt ttgttttccc tttttgtatt tgataacata tnggaaatgc tctangtact 240  
ctaccattt tgcattgcctt ttgtttaact tgctttgcca tctaataaac taaatgattg 300  
atgatcacta tgaatgac 318

<210> 993  
<211> 408  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 993

gaaaaatcta gtctttgtgg gtgtcgtgga tctaatttgt tttcttccct gtgttgaaaa 60  
tggagctntg caaattagag gaaaaatgaa ctttatggta atgcaaagga ctaaagcaag 120  
gaaagtgtga catccttcta nggtccacta taacaggctc tatcttaact atttcacaag 180  
ctgggagcca tgcgtccaat gataatttgt tgtgacatct gtgtctagcc cacatgagtg 240  
aaaaaggact ggaaattatg agcaagcgag gcttacttgg aaatcacaat gtggaacctc 300  
tttagttttg tgagcactat gtctatatga agcaacatcg aaagaaattc ccaaaggggt 360  
tgtagactac caaagtcaca ttggactatt gccattctta ttgttggg 408

<210> 994  
<211> 333  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 994

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caagttatga tcatttgaat ttctcgatag cttccgttgg ttaatttcga gcgtcttgat 120  
atnatacgcg ctggaatccg acctacaagt gaaaagttaa gaccatttga atttctcaag 180  
agcttccatt ggtcaattta acccgctcga tatttatgtg cctgaatcgg acctccgagg 240  
taaatgttat gaccctttga atatctcgag agcttccatt gtcaattgcg accgtttcta 300  
ttgtgatgag cctgaaatgg accaccgagt aaa 333

<210> 995  
 <211> 326  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 995

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 gtaaaaatta attgtcatta gaatttgctc agaagattta ttttcaatgt cgagcatctc 120  
 gatatattac gagactcaat cagacattcg agtaaaaagc tattgtcata agaattgcac 180  
 agagcttctc tttttaattn tgagtgtctc gatatattac gggactcaat cagatatccg 240  
 agttaatagt tattgccgtt tgcgtttgct acgagcttcc ggttcaatta ctacgggctc 300  
 gatatattat ggcactcaat tggaca 326

<210> 996  
 <211> 312  
 <212> DNA  
 <213> Glycine max

<400> 996

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 acaaaataac tatgaccttt cctgcaacag gtacaacctt ggatggagga atcatcccaa 120  
 ccttagatgg tcgaatcctt cacaacatca acaacaacct tattttcaaa atgttgctgg 180  
 cccaagcaga ccatacgttc ctccaccaat ccaacaacaa caacaacaac agccccagaa 240  
 agaacaacaa gttgaggccc ctccacaacc ttcccttgaa gaacatgtga ggcaaatgac 300  
 tatgcaaaac at 312

<210> 997  
 <211> 167  
 <212> DNA  
 <213> Glycine max

<400> 997

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 gcgtgttgaa agcttagcgt ctatacatag aattaccctg atctggacct gagagagaat 120  
 agttgtgaac atgagaaatg gacgagagct tccgagggtc ttttata 167

<210> 998  
 <211> 361  
 <212> DNA  
 <213> Glycine max

<400> 998

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 cgaagaatac tggcctcaca gtgatcataa atgagaagga ggagtttatt cctactcagg 120  
 tgcagaacag ttggagagtc tgcattgact attggaggct gaaccaggct accaaatagg 180  
 accattttctc cctgccattc attgaccaga tgcttgaacg cctggcaggt taatcccact 240  
 actgtgtcct gatgagtttc tggatatgc aattactatt gctctgagat cacgaaagac 300  
 cacttaacctg cccataggac tttgctataa gagatgcctt ctgctggcat gccctgtcc 360  
 t 361

<210> 999  
 <211> 356  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 999

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 gcctcatatg ctaacctgac taagaatgtg gtgggttagaa ttcacagaa ggagataatt 120  
 tgcagatatg gggtacccaa aaagataatc accaataatg ccaccaattt gaacaacaaa 180  
 atgatgaacg agatgtgtga gggattcaag aaccaacacc ataattcgac gccttatcgg 240  
 cccaagatga atggggcagt tgaggcttgc caataaaata tcaagaagat tattcagaag 300  
 atgacaatgt catacanaga atggcatgaa atgctaccg tcgcattaca tgggta 356

<210> 1000  
 <211> 387  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 1000

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aattcaagac caactttttg atatatttct tgctaggact atccctaatac ctagggataa 120  
 ttagtaggac caaataaatg gaggttgctg aattatacca catgatttca gcaacaacaa 180  
 aagttgcaat aaagacaaca atgatatttt ttttattgca ataaagacaa caatgatatt 240  
 tatggacatt atcaatgttt cccatgtgta atcctttata taaaccttga gctggtcaca 300  
 cagtaagatg aaagagaccc cgntaatata ttatctaaca ttctgcaatg atgataaact 360  
 atttctcttc ttcttcaaaa aaaaaaa 387

<210> 1001  
 <211> 338  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 1001

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 attttttttt aataattttc ttttaataaa actcatttca tgatattttg caaagtgatg 120  
 catatcaagc tattggctac taaaatttct tacctcaatg attattcaag tcaatagtga 180  
 aatagcaatg ggtgcaacca tttccccaat tctgcatacc gaaactccca gttcaatatt 240  
 agtgtactta tctggaagga taatcccaag aatcttctta gtgattaatc tgcaaatgga 300  
 aaccagcctt taagcatctg gggctctatc tcattatt 338

<210> 1002  
 <211> 360  
 <212> DNA  
 <213> Glycine max  
 <400> 1002

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 gttgccttaa tgtccctgtg tactattttc aaccttgact cctcatgaag ataagccaat 120  
 ccccttgcta tccccacaca gatcttcatt cttgtgggcc aatacaagtg cagcttctgt 180  
 tcatgttcac ctacgggaaa tgcgggggga aaggaaataa gctttttctg ttatatattg 240  
 attttgaagc agaaacatac acacacaaac acaaggataa tgttgcccgt aaagcattta 300  
 ccgaaaagtg cagcagcaag actggtgggc tccatgtatt catatataag tagcaactgg 360

<210> 1003  
 <211> 222  
 <212> DNA  
 <213> Glycine max

<400> 1003

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 agatgatggt acagcgggtg aacaaaaagc ggaagtttct tttggtgagg tagccatgga 120  
 aaagcagagc gtttgaatg atttcgtaaa tctcagaagg ctattgggaa atgctggtaa 180  
 aaacacgaat gccaaagcaga tataaatttg aatgaaaaat gt 222

<210> 1004  
 <211> 296  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 1004

agcttctatg atccgtcaaa atttcaatgt ggtgccccaa taggtattgc ctccacttct 60  
 taacagcagt ggtaatggca gctagtacac gaacataggt gaaggagctg agtaacttat 120  
 ggcaaaactg tttgctaaag aaagctatta agtgtcttcc tttgtgacaa cactgtgccc 180  
 attcctgagt cggaggcgcc tgtttccacc acgaagggtt tggtgaaatc aggaagtgtc 240  
 aatactggng aattattcac gacattcttc aagttttgga aggcaactgt agcttc 296

<210> 1005  
 <211> 279  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 1005

agcttcagag tgatgctntg cgtgaagcca tttcangaat catggcttat tcccaggaga 60  
 agaatcgcaa atttgtggag accatcgaaac tccaaatcgg gttgaaaaac tacgatccac 120  
 agaaagacaa gcgtttcaag ggctctgtca agctgccccca cattcctcgc cccaagatga 180  
 aaatttgcac gcttgggtgat gctcancatg ttgaagaggt ctctatttgc catattcatc 240  
 aagactctta atggatcata actatttcat gataattag 279

<210> 1006  
 <211> 386  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 1006

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 tgactntgag cgtttgttta tggaggaatc cgagtcaatt tctgaatatt tttctcgagt 120  
 attggccgta gtcaatcaac ttaaaaaaaaaa tggtgaaaat gttgatgagg tgaagggtcat 180  
 ggaaaaatac ttcgaacttt aaatccaagt ttgacttca ttgtaccaac attgaaaaaa 240  
 caaggattaa agaccatgac tattgagcaa ctcatgggtt ccttacaagc atacgaagag 300  
 naataaaaga gaaaaattaa acaaaatgag gctactgagc aactactaca actcaacgta 360  
 aggagcaaa ctatgcaa tacaag 386

<210> 1007  
 <211> 274  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 1007

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 accataatat ttcaagatgc tcaaaattgg agatggaagt cccagataaa ttcaaactgc 120  
 cacaactttt gactaggatg tctgactgcg gccatcata taacgagacc ctengaaatg 180  
 attatggaag ctccgagcan attcaaattg tcataacttt tgaatcggat gtctgactac 240  
 agaccatact atatcgagaa actcgaaatg aaca 274

<210> 1008  
 <211> 371  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 1008

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 ttggtggtca agacatacaa gtgagcttgt aaaaaatctt ctacacttga agtgatcaca 120

tgcaatcctc ttgaaccctt accaccact ctgtcatcat gccgagactt angaaggcca 180  
 acaggtttag ccttctcaat ttattctgaa caaaattcaa tggcttcttt agcaatgtac 240  
 ctctcaacaa tagatgcttc tggatgataa agattctttg tatacccttt caagatcatc 300  
 atgtatcgct caaccgggta catccaccat atgataacag gaccacaaca tttgatttct 360  
 ctgactagat g 371

<210> 1009  
 <211> 377  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 1009

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 tgggtcccca gagactaacc cttttgcaag gggcttcac c aagggtgtatc tcaaagaggt 120  
 tagggagtgc caagccaagg caaagaggta tcccttacia gaagaaaaag aaggcctcaa 180  
 atcanagcaa gggaaatgat gaatcatcct ccaccatgca cttctcttga acaacatctt 240  
 cagtatcgat ccccttggac ctttcaagtc atggtaatta attaattaac taatcttgct 300  
 tgccatcaca ctcatgatca taaactatgc ttaactagga tgattaactc aatgcgggtgc 360  
 taggatctag ttttttt 377

<210> 1010  
 <211> 314  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 1010

agctggctta aagacgtctt tgatcaatta attattntan aacctagtga aatattaact 60  
 aaaaaagaa acttataaaa tttagtatga gtaatgtaca aatccaaaaa taattgataa 120  
 acaaaatcat attaaattca agtcattaaa acacaaagta tataaaaaaa atgaacaaaa 180  
 gagagcataa tattaaaaaa tacatacaaa gacaaggaat gactntaact angatgggta 240  
 agactatctg gtgtagatac aagaacttag agaaagaaaa tgaattaaaa gagtgagaat 300  
 gcanagggat gtgt 314

<210> 1011  
 <211> 258  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 1011

cactaagcaa tcactacgca tagctctcaa ctggaagggtg gaagacacat gaacgataac 60  
 gcaattcatg gggctccgaa atgatngaga atggagaatg gcactaagca atcactacgc 120  
 atagcttcaa aatggaaggt ggaggacaca tgaacgaaaa cgcaattcat ggggctccga 180  
 anaaggttga gaatggagaa ttgcactaag caatcactac gcatagctcc aaactcgaag 240  
 gtggaggaca catgaatg 258

<210> 1012  
 <211> 439  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 1012

agcttgggtca ctctaattgtt tggggaccaa catctgtatc ataagttggt gggaaacaat 60  
 actttgtgac tttttagtaa ggtataagtt tactttctaa aacacaagtc aaaattattt 120  
 aaggctttta agatctaaaa agccatgggt gaaaatgaga cagggttgaa gatcaaaacg 180  
 ctcaaaactg acaatggtgg taaatatgaa gacacaaaat ttaagagggt ctgctataag 240  
 tatggaatca aaatgaaaag gatngtatca cgtactctc aacaaaatgg tgaagctaag 300  
 catgtgaaca gagaacattg acctaaagaa acagcctcag aagtgaagtg ttgaggagca 360  
 acnaaaagct cggcagcagc ccgagcttgg cttaaagaaa cagccttagc aacaacattc 420  
 ctattgcggc atctgggtg 439

<210> 1013  
 <211> 289  
 <212> DNA  
 <213> Glycine max

<400> 1013

agcttgtgag caattcaa atggtcataact ttacactcgg tgggtccgatt catgcgcata 60

atatctcgaa atgctcgaaa ttctacattg gacgctcttg agcaatatat atggccataa 120  
 ctattcactg ggacgtgcga ttcaagcgca taatatatcg agatgctcca aattgaacaa 180  
 cacaagctct cgagaaattc agacggtcac aacgtttcac tcagaggctg gattcaggcg 240  
 cctaatatat cgagacactc agaattgaac aacgaaagct ctcgagaaa 289

<210> 1014  
 <211> 429  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 1014

agcttataaa attntccaac cgcanatgga aaaagtagtg ttagcaggga tgttcactnt 60  
 gtggaagatg aagaatggaa ttgggataat ccaaggatga taaatcaagc ccttggacat 120  
 ttgaacttaa actttcctgc accaagttca aaaaattggc aagatgagct tgttgatgat 180  
 gttctagtaa gaggtactag acttctctct gatatttatg acagggtgcaa tattgttgta 240  
 tgtgaacctg aaaactatga agaagccaag aaaaatcaaa tttgggttgc tgcaatgaag 300  
 gaggagctct caatgataga gaaaaatcaa acttggcatc ttgtagaaag aacctcagac 360  
 aggaatgtga ttggagtcaa atgggtatat agaactaagc ttaatgctga tgggtctatt 420  
 aataaacat 429

<210> 1015  
 <211> 452  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 1015

agctntgtag agattgttcc aactcccaac aagctataac agcttccatg gcatgaacac 60  
 ggacatgttg ttgcaattgt tctttgaaag cacagagcag tataacataa tgcgtctaca 120  
 acgaaaataa gagcaaaact tgtaaattaa ggagcatcat gtgaaataat tgagcccatt 180  
 gtctgaaaa ctaaattcaa tcatgggaat tcatgaaaat tagagaaatt ctaacaataa 240  
 aaacacaatt ttagtgaatt cacctctcat ttaatgagtt ttcttaattn tatagtntc 300  
 aatggattnn taattattga tcaaatttg ccttgctagc cgtcctttta agaatatcca 360

aaccaacatt cagaagaaag gaactggagt atatgathaa cagataacca tgagtgctaa 420  
 cttaacaata atctttatct attttttttt tt 452

<210> 1016  
 <211> 429  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 1016

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 taccgttaac tagccagtag gttcttgggc gggttgagga catcaatagt atatttgga 120  
 agaccaaaaa gaaggaaaaa aagtaaaact tggatatgga agaagaggtc gatattgttt 180  
 gatcttccat aatggtttga tctaggtgcc tgacattgta ttgatgttat gcatgtggag 240  
 aaaaatgtgt gtaatagtgt catcgacatg tttttaaca ttcaaggaaa gacaaaggat 300  
 agtttgaata ctctgaaga tctagttgag atgggtgcat cctctagctt gtcatactnt 360  
 gtccagaana gagaagataa gtttttgta gtgtctgtaa catgtgaaag tgtcacaagg 420  
 atactcttc 429

<210> 1017  
 <211> 156  
 <212> DNA  
 <213> Glycine max  
 <400> 1017

agcttcttct caataggatc atagaacctg tgactaaatt cattctcacc ataaccaatg 60  
 aagataccac tgccttgact ttgcatccaa cttggatctc ttatcctttg gaacatgcac 120  
 aaaagccttg cagccaaaaa ctcaaaagtg atcaca 156

<210> 1018  
 <211> 286  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 1018

atggcttatt ccttatgcgc ctgaatcgaa catccgagtg aaaagttatg accattctaa 60

tttctcgata tcttccgttg atcaatatcg agcgtctcga tatgtgatgt tcttgaatcg 120  
gaccttcgng tgaaaagtta tgagcatttg aatttctcga gagcttacgt tgtgcaatta 180  
cgagagtctc gacatgtgat gtgcctgaat cgcaccaccg tgtgcatagt atgaccattt 240  
gatattctcg agagcttctc gccgttcaat tgcgagggtc tcgata 286

<210> 1019  
<211> 387  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 1019

agctggcact aagaattctg attcaagttc ctaatgtatc gagacattgg ttattgaaca 60  
atggaaactc cgcagaaatt aaaatcgta ttacttttca ctcgatggtc cgattcaggg 120  
acttcagata tcgagacgct cgaaattgaa caacggaagc tctcgagaat ttaagatggt 180  
cattacttta cacatggagg tncgattcat aaacatcaca tgcgagatg ctcgaaattg 240  
aacaacggaa gctgaagaga atttcagatg gtcataactt ttcacttgga tgtccgattc 300  
aggcgcata tatatcgagg cgttggttat tgaataattg aaactctcca gaaaataaaa 360  
tggtataaac tttcactcgg attccga 387

<210> 1020  
<211> 384  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 1020

agctnttcct ctagttgctc tggttaaggtt tccaaatggt agagaatgaa aagagattga 60  
agccttcatt ntgtactgtc ttcgtgcgat tcaactttct ctcttgataa atagtatttc 120  
gtaaatccca acggtagaag tggtttacaat tgaatcgga accaggtgtc caaatttcat 180  
gacgatccaa tggttaatga ttccgggata gtagttttac tggacaggtt ttgagtctcc 240  
gtgggaaaag agaaagctac aatgcaaagg agatttctct tagctccgac attctttcgc 300  
aatttctgat ggngagaatg ctcggaactg agttgaaatc agtgctgaat atacaacgat 360  
ccacggttaa aagttgagat cgtg 384



<210> 1021  
 <211> 406  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 1021

ntataattga attgtgaata tttgattgga atcattctat ttagaaattg atttaagtaa 60  
 aatatgtaat tcaattaagt tgatttataa aagttagtaa tataaaagag aaatattnta 120  
 ctcaaaaaaa ggaaaatatt ctttgaatta aggttaatat ataatacttt aattggttatt 180  
 attattntat ttattaaatt attaacatgt aatcaattaa tattttattta atgttaatac 240  
 taatagtaat agtaacatat tattctgatt ggaatttatt tttaattatt ttaattatta 300  
 ttgaatcaaa taatctaaca taatgattca acatctaaaa aataatgagt tttgtataat 360  
 aatngatatt atatataaca attcattaaa tattaatata cacata 406

<210> 1022  
 <211> 439  
 <212> DNA  
 <213> Glycine max

<400> 1022

agcttctaaa ctttgtacaa gaatgaagct ctgttaccac ttgttggaca agtggcctca 60  
 gatattctaa gaaggggaag ttgaattaag atattacaaa ttattttccc aattaaaaat 120  
 tctatttaac tttctattca agttattaat tcccttaata atgaatttct taaatattga 180  
 ttcaaataga acaatttgaa tatgaatata aaacaataat aatgaagga gtttaaggaa 240  
 agagaaagtg caaactcaga tttatactgg ttcggccaca cccttgtgcc tacgtccagt 300  
 cccaagcat cccgcttgag agttccacta tcttgtaa at tcttttaca agttctaaac 360  
 acacaaggac aatccttctt ttgtgtttag aattctttca caacaagaga ccctcggtct 420  
 cttaatccct tttcagaat 439

<210> 1023  
 <211> 271  
 <212> DNA  
 <213> Glycine max

<400> 1023

agcttccatc aagttatgac catttgaatt tctctgagat cttccgggtt caatttccgg 60  
cgtctccata tgtcatgtgc ctgaatcgga ccttcgtaag aaatattatg accatttgaa 120  
cttctctaga gcttccgttg ttttaatttcg agcttctcga tatctgatgt gcctgaatcg 180  
gacatccgag tgaaaagggtg ggacaatttc aatttctcca gagcttcccg tgttcaatat 240  
tgagcgtctc gatatgtgat ggtcctgaat c 271

<210> 1024

<211> 403

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 1024

agcttagctc caaactctnt ggggtggagga tgaatgaaca gcgcttggca atgacattca 60  
tgggtctccg aataaaagtg gagaatggag aattggcgta tagagctagg caatcacatt 120  
cgcgngctc cagactcgaa ggtggaagac acatgaacag cgctaggcaa tgaccttcat 180  
ggggctccga aaaaaagtgg agaatggagg attgcactat aggggtccaca cttaggcaat 240  
catgaagcat agctcaaaac acgaagggtg aggacacatg aacagcgcta ggcaatgaca 300  
ttcatggggc tccgaataaa agtggagaat ggagaattgg cgaacagcgc taggcattga 360  
cattcgtggg gtcacacact cgaagggtgga ggacacatga aca 403

<210> 1025

<211> 404

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 1025

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ctttaccttc tcttccattg ntgtttcttc atttttctcc atgtatctcc tcacatgtct 120  
tgttctaaat gttgttaaca tgattcttta gagtttccac cgattaaact tgctatagaa 180  
gctagatttg attttctatg gttcaaattt cttgttcttg ttcttgaacc atgaattgtg 240  
ttgagtttaa gttcctttga gtcttgtctt ggtatatctt gtggctgatg ttagtggttg 300

gctctactga gctntaaaag aatggctaag aatttggttaa acataagcac ttagacaatg 360  
aaggaaagct ggagttgctg cacatgatgt ccaacgttat gtca 404

<210> 1026  
<211> 355  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 1026

ggctgaaagt cggaaatnta ttntattaaa tcataaatgt tttgtaaaat tatatattga 60  
agtagctaaa aaatgtaata ttacataatg ggcataatnta tgtaatgatt tatacaaatt 120  
nntaattgat tnntgtgaca aaatatatgt tgtagtattt ataattttgg tattaaatta 180  
attttaaaca cttgtagctt tttatttata aaatatccaa agaataaaca aaaactacat 240  
aaacttatta tatatcatta tcactatcat atngtnttt tatanattca atatcatata 300  
taataaaaagg gtaaaatgag taatcatata tatgtaaaaa ggataaaaata ataag 355

<210> 1027  
<211> 425  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 1027

cgcttggttaa aatagagaat ggatccatct catttgagat attcacatgt gaagagagca 60  
tcctatctaa gatatttggtt tcattctgcc atatgaatat atcatgtgaa agtctatata 120  
tgatcaatta cgggtcaaatt atttgaagcc aaaaaaagag aaagggaat ggtaacaata 180  
acgcacctca atttgatcaa atgaccttaa tcttctaaaa caaggagaat ggctaatttc 240  
ataatttggtg tgcaggttgc taaagaaagt gcagatgtca taattctgga tgataatttc 300  
tccacgatag tgacagtagc caaatgggga cgttcagttt acataaatat tcaaaaattc 360  
gtacagttcc agcttactgt aaatgtgngt gcattactgg tgaactnctc atcagcatgc 420  
atgac 425

<210> 1028  
<211> 284  
<212> DNA

<213> Glycine max

<400> 1028

taagcttggg ttttcaactg caagtccagg tggatatttgc atatacactt cttcttcaag 60  
ctctccatgg aggaacgcat tgttgacatc caattgtcgc aagtgccatt gattttgcgc 120  
agccaatgcc agaagaacac caaccgtagt gagttttgcc accggagaga atgtgtcgag 180  
gtaatctaac cctccatct gagtgtaacc cttggcgacc aagcgtgctt tatacctttc 240  
tatggaacca tcagcccgat atttaattctt gtaaattcat ctgc 284

<210> 1029

<211> 309

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 1029

ggagattcgg tcctatggtt gctaattggag gagttggaat ggatgatgga gggatgtcat 60  
ctgctctagc ccattttctt gatgccatct gtaactaaaa agaactcaaa attccttaga 120  
ccaaatttat tcaagtttaa aaatagaaat aaaggctgaa attaattgatg gctgatgcaa 180  
tcctactccg caagggcatt ggatagaagg ctctaagaag aatggggccag agatgcaaga 240  
gaagacctta nggttcccat gaggccttatg gtagattntg ggcaaagg gctaagtatga 300  
gcccgtta 309

<210> 1030

<211> 284

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 1030

actcggatgt ctgattgagt cccgtaatat atcgagacgc tcgaaattga ataccgaagc 60  
gctgagcaaa ttcaaagcag aataaccttt tactcggatg tctgattgag tcccgtata 120  
tatcgaaaag ctcgaaatcg aatgttgaag ctctgagcaa attcaaacga caataacttt 180  
ntactcggat gtctgattga gtcccgtaat atatcgagac gctcgaaagt gaatgtcgaa 240  
gctctgagca aattcatagc acaataactt tntactcgga tgtc 284

<210> 1031  
 <211> 418  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 1031

agcttgccctt acctgcaaag tctttggcta aatgttatta aaacaacagg ctggcgtcca 60  
 ccaccatact caatttctcc acttgattct tgtgctatct gtcttatatg ttgcaaggcc 120  
 tgcatagtta atttcacaat tgtcactcac taagttttga aaaagttaaa catatctaata 180  
 tcatttaaca agcaactaat taatcttaca acaattgtca acttttgagt caagaattct 240  
 gatgattcat acagaagcct gagtacttca agtacctct agagcttcat tcaataagtc 300  
 aaacaattga gggactatag gtctacaata tnaaattcac aaaatgactt ggatatatat 360  
 tacacatcta aatcaatatg catttaacaa gtactagtta tttagtcttc ttcaattc 418

<210> 1032  
 <211> 373  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 1032

ntctccacta agttgcctga tgctganat gtcttttctg atggcagtgg tcttagatgc 60  
 anggaagaat ttctccatga acacctctt aaggctattc cagctgaaaa tggacctang 120  
 agcaaggtag tatagccaat cttttgtcac tccctctaga gaatgaggaa aatccttttag 180  
 aaagatatga tcttctgga cattangggg cttcatgggtg gaacananna tatggaactc 240  
 cttagatgc ttataaggat cttcacctgc aagaccacga aacttgngca gcanatgtat 300  
 tagtccagtc ttgagaacat atggaacacc ctcacanga tattgaatgc acaagctttc 360  
 ataagtgaat tca 373

<210> 1033  
 <211> 449  
 <212> DNA  
 <213> Glycine max

<400> 1033

tatgaggaga agcataagaa gaagcaagag atcaccaagc tactctttaa gttgctactg 60  
aaggagaagg aagaaagtca atgaaatgaa agaagtcatt gacgccgagg tagagggtga 120  
ggtcacggtc gacgatacgt tggaggtggc aatagtgtac gaggttcaaa tttcatcaac 180  
aatagttacg agaaatgaaa tagctcaaga gaatgtggaa aaggctatac aagcacaagg 240  
catgataaat ctcaaactcg atgttataaa tgtcaaaaga ttggccacta tgcttcaaaa 300  
tgtagattcg ccaataatag agttgaggag gagactaact atgtggagca aatgatgag 360  
aagtttcaaa tagtgctcct agagtgtgga ataatgaacg tagccaaaaa acacatggta 420  
ccttgacact agtgcaaaca accttatgt 449

<210> 1034  
<211> 457  
<212> DNA  
<213> Glycine max

<400> 1034

agcttatgct gcaaactct acaacagacc tcctcaacct tatcagcaaa atcagccaca 60  
acagaataat taagacctct ccagcaacag gtacaatccc ggatggagga atcatcccaa 120  
ccttagatgg tcgaatcctt cacaacagca gcagcaacaa caacagactt attttcaaaa 180  
tgttgttggc ccaagcagac cacacgttcc tccaccaatc cagcagcaac aatagcaaca 240  
gccctagaaa cagcaaatag ttgaggcccc tccgcaacct tcccttgaag aacttgtgag 300  
gcaaatgact atgcaaaaaca tgcagtttca gcaagagacc agagcctcca tttagagctt 360  
aactaatcag atgggacagt tggctacaca gttaaatcaa caatagtccc agaattatga 420  
tagattacct tctcaatctg tccagaatcc caaaaat 457

<210> 1035  
<211> 345  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 1035

agcttgccgc cacggagttt ttgactatg ctcttgtgtg gtggaacaag ctacaaaagg 60  
agagagcacg aaatgaagag ccaatggttg atacatggac ggagatgaaa aaaatcatga 120  
ggaagcggta tgtgccggct agttactcaa gggacttgaa attcaagctc caaaaactaa 180

cccaaggcaa caaggggggtt gaggagtatt tcaaggaaat ggatgtgctc atgattctgg 240  
 caaatattga acaacatgag gaggttaacta tggtctgatt tcttaatggg ttgactaatg 300  
 atatccgtga tattgntgag ctgcaagagt ttgttgaaat ggatg 345

<210> 1036  
 <211> 269  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 1036

agctttagg gttaaagtct cagcattgtc ttgtgttgat gcaacaattt ttagccatga 60  
 ctatacaaga catcttgcca acaaagtca ggtagccat aactcgctg tgttttttct 120  
 tccatgccat atgtagcaaa gtcgttgatc ctaccaagtt tgatgagctg gaaaatgagg 180  
 ccgcaattat actgcgccag ttagagatgt attttcctc tgccttcttt gacatcatga 240  
 ttcacttgat tgtgcatctc gacagacaa 269

<210> 1037  
 <211> 416  
 <212> DNA  
 <213> Glycine max  
 <400> 1037

agctttcttc aatcgacgat acgggtgata tgctgtcaaa tttcttcggg gtctactata 60  
 tgctgatttc tttccatggt tcagttggat gaagctgggtg tttgtctcac atacagggca 120  
 tgcataatgt cttttcacac tatatccact taaattttca tatgttggaa agtcattaat 180  
 agtacaaaac accattgcgc gtaacctgaa gatctactac aaatttgcac cccacacatc 240  
 aactccatct tcccacaatt ttgtcaagtc ttcaatcaac agactgagat acacatcaat 300  
 atcattccta ggttgccctg gacccgctat cattagacaa aacataatgt attttcgctt 360  
 gatgcacaac caaggaggga gattgtaaat catcatcata acacgccatg aactat 416

<210> 1038  
 <211> 448  
 <212> DNA  
 <213> Glycine max

<223>      unsure at all n locations  
 <400>      1038

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agctntctca aaatccactt ctcaaatgag actagcttta ttcctctccc tagaatcatc   60
caccatctca ttgtctacaa gtacactatc atgcatgtgt cccccccca acccaccaca  120
caattgcact ctgcttatca tcaataatct tttcaagcac catctccatc cttttggcaa  180
acactttgga tataatcttg taaacacacc caatcaagga tatatgccga aactccacaa  240
gctcttgtgc gttgtctctt tttggtatca aagcaatgaa ggaggaatta ccacctcttg  300
gaatagcatc attctcccaa aattcatgca tcatactcaa tactcctagt attaacagtt  360
cccaacatct ttttaataat attgataatc taacgaactc attaaattaa atcatcttat  420
ttaaccatc taattgtaaa taataata                                     448
  
```

<210>      1039  
 <211>      458  
 <212>      DNA  
 <213>      Glycine max

<223>      unsure at all n locations  
 <400>      1039

```

tctctaagca ctctgcaggc tgcagctttc aggtcaactg gccaaaggatg tgatttctaa   60
cgctctataa cagcagtagn tatagcttta agtattgaat tattaaagcg tctctgggtg  120
tcaaaaagac caattcttgc atcagtatga tacttataat taagtataag aagcagtggg  180
taacttatat agaataatcg aaaaaactct ttctctctga accctgctgg aatctgtatt  240
tgtgagttgt tattcacaat ttgattatga tactatgcta gaattatata tagagttaac  300
caagtttget tcataaaata tattatatac aatcagaaat tttggctgat gcatgattat  360
tcgcctaatt atattatcta tgtaactatg tttctctctt atgtttgtta caacattacc  420
taattgattt tatacttttc ttttttatgg ttcataata                                     458
  
```

<210>      1040  
 <211>      418  
 <212>      DNA  
 <213>      Glycine max

<400>      1040

```

ctgcagctag cagatataat ttttagatgg aatatacttt aacataatct atgcaggtat   60
  
```



ccatcacaaat ccagaagaac attgatgctt ctattaaaga tctagaagtt caagttggac 120  
aactgtaaaa atagctatct gaacatggaa gtggatcttt ctcagcaacc acacaggtca 180  
accaatatga acattgtaat ttaattacaa caaggtgggg gactgtgggt ggtttgaagg 240  
ataataatga gaaaaagaat aaagaatgag ttgaaaagga aaacgagaaa aatgatgatg 300  
tggtgactag tgaaaaagtg gtaagtgaag aagacagaag acatctatga acaaccacta 360  
ataaaaagtga tctatagtaa atcatccacc attgagcatc tttcttatcc acatgctc 418

<210> 1041  
<211> 294  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 1041

aatttcatat gctggatagt cattgatggt acaaaaaacc attgcacgca acctaaaggt 60  
ctctcgaga ttcccatccc acatatctac cctgtgttcc caattttttg tcaagtcttc 120  
tatcaacaga gtcaagtaga cgtcaatata attccctgga tgtcttagat ccgctatcat 180  
catgcacagc attatgtact tttgcttcat gcacaacgaa ngaggaaggt tgtaaatcat 240  
tatcaaaaaca ggccatgaac tgtgattgct gcttaagtta ccaaattggat tcat 294

<210> 1042  
<211> 424  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 1042

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tggggatcat ctagagtga aactcatggt ggaagctcat actttctcac tatcatagat 120  
gatttctcaa gaagagtatg gttgtatggt ttgaaaaata agtcaaaagt ttttcaaaaa 180  
ttcagagaat ggcatactct agttggaaat caacttggtta caaaattaaa agttttaaga 240  
actgacaatg gcctagagtt tttttcagag cagttcaatg agttttacag gaaaataggc 300  
atcaaaaaggc ataaaatagt ccctcacact ccacaacaga atggcttggc agaaagaatg 360  
aatatgacca ttntggaaag agtgaggtgc atgcttctaa gtgtacgact gccaaagacc 420

tttt

<210> 1043  
 <211> 362  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 1043

catatgctgg aaagtcatta atggtacaaa aaagcattgc acacatttga aaagtctcat 60  
 tctgaaaccc atcaaacact aaaaccccct cgteccaaaa ctttctcaag tcttcaatca 120  
 acggacttag ataaacatca atgtcatttc ctgattgtct tgggcccaat atcatcatag 180  
 acaacatcat gtanttttgc ttcatgcaca accaaggagg caaattggta attactagca 240  
 aaactggcca tgaactgtgt tgagtgttta aactgtcata tggattcatt ccatcactag 300  
 ctagtccaag cctaagattt cttgcctctt agccgaaatc cggatacana ctatcaatct 360  
 tc 362

<210> 1044  
 <211> 415  
 <212> DNA  
 <213> Glycine max

<400> 1044  
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 agaagaatgt ggcatttaac tggggtgaaa aaccagagca cgcctttgct ttgcttaaag 120  
 aaaagcttac taaggcacct gttctagctc tgtctaactt ttctaaaact tttgagctag 180  
 aatgtgatgc ctctggagtg ggagtcggag ctgttttgct gccaggaggg caccctattg 240  
 cttatttttag tgaaaaactt catggtgcga ccttaacta caccacctat gataaagagc 300  
 tttatgcctt aataagagca ctccgaactt gggaacatta ccttgtttcc aatgaaatgg 360  
 tcattcatag tgatcaacaa tcacttaagt tcattagacg gcccatcaag ttaaa 415

<210> 1045  
 <211> 292  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations

<400> 1045

agcttgaatc ggaccttagt gtgaaaagtt ttgaccantt cnntttegcy tgtgctttcg 60  
ttgttcaatg gcgagcaccn cgacacgaga tgcgctctaa tcggacatcc gtgtgaaaag 120  
cnatgaccac ncgagagtct cgagagcttc cgtggttcaa tttcnagcat ctggtcatat 180  
tatgtgcccc aatctgacct tcgngngaaa aaggatgacc atttgaattt ctcgagagcc 240  
tccgatgttt aatttcgagc gcctcaatat attgtaggcc cgctcggag ct 292

<210> 1046

<211> 427

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 1046

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ctcagggagt tatgccagg accaagggtta caggtggctt cggtttcttt attntatcca 120  
ccaaaatagc ttgagtagtt agaatgacac cagcaacaga aactgcactt tgaagagcac 180  
atcttgcaac acgactagga tccgctactc cagcattcaa aagatcttca tacgtgcctg 240  
tcattgcatt atatccagtt ctccaatcat gtgttctagt cttccggaca acaatgtctc 300  
catcaactcc ggcattagtt gcaattgatt ttgcaggttc aaggagtgcc tgcaacgatt 360  
catgtgcaac cgcttacata tggtaaaagc actccagagt ccagacaaag tcataacttca 420  
tatggaa 427

<210> 1047

<211> 416

<212> DNA

<213> Glycine max

<400> 1047

agcttatgca gcaaatatat acaatagacc ttctcaacct cagcagcaaa atcaaccaca 60  
gcagagcaat tatgaccttt ccagcaacag atacaacct ggatggagga atcacccata 120  
cctcagatgg tccagccctc agcaacaaca acagcagcct gctccttctt tccaaaatgc 180  
tgctggccca agcaaaccat acattctctc accaatccaa caacagcaac aaccccagaa 240  
acagccaata gttgaggccc ctccacaacc ttccctcgaa gaacttgtga ggcaaatgac 300

tatgcagaac atgcagtttc agcaagagac cagagcctcc attcagagct taaccaatca 360  
gatgggacaa ttgggtaccc aattgaatca acaacagtcc cagaattctg acaagc 416

<210> 1048  
<211> 446  
<212> DNA  
<213> Glycine max

<400> 1048

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aaagtlatta taatacactg aagctccatt aaaaactgaa ccatgagtac ataattatta 120  
tactacattg cagctgcatt aaacatgtta ttgttattta atttcaggac ctaaaggacc 180  
ccttccctta tttttgagaa aactagctta atataatcta cttctataat taactaagga 240  
gttgagagaa gctaaccctaa aaacgcaata tcaccttctt atgtttgttc acaaagttca 300  
attagagaat cttgataaag agaatagtat ataatcacta attaatagta aatattatag 360  
aggttcaaac ctagttccag ctttcacaat gattgcgagg gtttcccaaa agcaagcagt 420  
agacaagatg gcttcaactt atgata 446

<210> 1049  
<211> 487  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 1049

gcttaacatt caattcggag cgtctcgtaa tattacggga ctcaatcaga catccgatat 60  
ataatttatt gtcggttgaa ttggctcaga gcttcaacat tcaatttcga gcgtctcgat 120  
atatgacagg actcaatcag acatccgagt aaaaagttat tgcgtttga attagcttag 180  
agcttcaaca atcaatttcg agcgtctoga tatatcacgg gactcattca gacatccgag 240  
taaaaagtta ttgctgtttg aattagctca gagcttcaac attcaatttc gagcgtctcg 300  
atatgtgacg ggactcaatc agacatccga gtaaaaagtt attgtcgttt gaattggctc 360  
agagattcaa cattcaattt cgagcgtctc gatatatgac gggcctcaat cagacatccg 420  
agtataaagt tattgtcggt tgaatnggct cagagcttca ccattcaatt tcgagcgtct 480

cgatata

<210> 1050  
 <211> 431  
 <212> DNA  
 <213> Glycine max

<400> 1050

agcttcttag ttccagatga tgcagatgag tttgtggcta cctcatgcac tcctctaattg 60  
 actatagcct catttatggc gctaaactgt tgggagtcgg aagccatctt ctcaattaaa 120  
 ttcttggtt cagcaggggt catgtctcca agggctccac cactggcagc atctatcata 180  
 cttctctcca tgttactgag tccttgataa aaatattgga gaagaagctg ctcaaaaatc 240  
 tgggtggtgag ggcaactggc acatagtttt ttaaactctt cccagtattc atataggctc 300  
 tctccactga gttgcctgat gcctaaaata tcctttctaa tggctgtggt cctggaagca 360  
 gggaaaagtt ttctaaaaat actctcttga ggtcttccca gctcgtgatg gaccttggag 420  
 caaggtaaca t 431

<210> 1051  
 <211> 408  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 1051

tgtgtctacc atcagatta tcgtgtccct ttccattatt gggggtacca cctgngccgc 60  
 catatccctg caccttttgg gcgtgttctt tgaatgatcc gttccccctt ttgcacatgt 120  
 tccgtagttg ccttctatcc agaaccatat caaaattgta ttgatactgt ctaacaacgg 180  
 caaccattac gtccttgcta taatggactc tggaagattc caagttagtg taccacgtaa 240  
 cagctacccc aataagactg tcttggaagg aatgtatcan caattcctca tcttttgagt 300  
 attcccccat cttctgacaa tacatcttta gatgggtctt gagacaagta tgtcccttgt 360  
 acttgtctaa gttcagcacc ttgaacttgg gaatgaccat gtttgggt 408

<210> 1052  
 <211> 412  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
<400> 1052

acctgcagct gcagctagag ctacacctac cgctctcctt tatctagaga tctctattat 60  
gagcctcact ttgagcctcc agatctgcta tgaccttctt cagttgtgct tcttgccgaa 120  
gaaccatctc actattgacg cgtaatgctc tatecgatgt aacaagctca tcaaaagtga 180  
tgtgcactgt ctgtatcact tgaatcttca gcagactcta atctcccagt gagtgcacgc 240  
acatcgctga cagagtcgct ttattgttca ctctctgcat cggatcgacg tacaaaaagt 300  
cctttcctcc gcttcttgag atgagcggga cattcatctg tgatgtgccc atgggcttca 360  
cacccatggc atagaattca cttgctgtga ctgangttta catctgacct tt 412

<210> 1053  
<211> 438  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 1053

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ggttgaaatt tttttaaaac tacaaaatca ggagagagac tcattagata agaaacggga 120  
gccacatatt tgtgattttc aataaatttg cgacctatct ctcattcatt tgtctatagt 180  
ttatgcattt tcaaaaatct tcaatccata ttgggactgt ggatctcact aatgctatga 240  
cctgcttttg tttcaaaatg cagtgggttac ttggcaccag agtatgcaat ggggtggccag 300  
ttaaccatga aggtgatgt atacagttnt ggggttctta tacttgaaat aatcagtggc 360  
aaaagcagtg caaggacaaa ctggngaggg tccaacaaat ttctattgga atgggtatgt 420  
aactttcagc ttcccata 438

<210> 1054  
<211> 240  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 1054

attgcgggaa tagttttcct cctcttgggc tcgaggtaca ngactgcgcc gaatgaaaag 60

acccttatga ccccttgag gaacttgctc tttgtgaca acagagctgt ggaggacccc 120  
 atctgtgect caagctgttc ccaaccacc aaacactctt cttgtaccaa gaggttgatt 180  
 gttacgcgt ttggtgatgc tcaaacgtaa aaaaagatga gaatggctcc attcaacatt 240

<210> 1055  
 <211> 272  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 1055

tctgggagga tgtatcagct gattntatca cagggttgcc ttggtcgaga ggctatgaag 60  
 ctattctggt tgttgtggac aggetgacca aatatagcca ttttgttcca ttgaaacacc 120  
 cttatacttg ccaagggaaat tgttgagatt ttcgtaaggg aagtagtgag gctacatgga 180  
 gttccaaaat ctctcgtgag tgatagagat cctttattta tgagtttgtt tggaagggaa 240  
 tttttaagtt acaagggacc atgctcaaga tg 272

<210> 1056  
 <211> 418  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 1056

gacactatga aactcagctt aacattcaat ttcgagcgtc tcgatatatt acgggactca 60  
 ttaagacatc cgagaanaaa gttattggtc gtttgaatgg ctcagagctt caacattcaa 120  
 tttttagcgt ctcgatatgt tacgggactc aatcagacat ccgtgaaaaa agttattggt 180  
 cgttgaattg gctcagagct tcaacattca aattcgagcg tctcgatata ttacgggact 240  
 caatcagaca tccgagtaaa aagttattgt cgttggaatt ggctcagagc ttcaacattc 300  
 aatttcgagc gtctcgatat attacgggac tcaatcagac atccgagaaa aaagttatgg 360  
 tngtttgaat tggctcagag cgttcacatt caatttcgag cgtctcgata tgttacgg 418

<210> 1057  
 <211> 421  
 <212> DNA  
 <213> Glycine max

<400> 1057

agccttggag tttccaagt ccaattcgtt ctcttcttta gtccagtctt cttctggctt 60  
caattcatca gtgggcttct cttctgtgtc cagcatcttg ggatgttccc agcctttgat 120  
gacagcttct caggttctgc tatccagtga ttgaggaag gccaccattc ttgctttcca 180  
gtattcatag ttgcttccat caagaattgg tggctgttct actggctctc cttctttctc 240  
catgttcctc agaatttctc tccccagatc tcaactctgtg atttcgagtg ttggctctga 300  
taccaattga aattctgata ccaggggaca gatgtcgtac aggatgtcac gacatcacgc 360  
ttcagaacat gcagtttatg tgtgtccgta tgaacagatt aaacaagtaa taacacaaga 420  
g 421

<210> 1058  
<211> 289  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 1058

agcttatgac catatgaatt tctcgtgtgc ttctgtttna caactttgag cgtcgtgata 60  
tattatgcgc ctgaatcggg cctccgagtt aaaagataac ccaaatacga ttttatgaga 120  
gctttcgtct gtttaattca agtgtctcga tatattatgc gctgaatcc gaccttcaag 180  
tgacaagtta cgaccattag aattgctcga gagcttacgt ggaacaactg ctagcgtcac 240  
gataaattaa gtgcctgaat cggacttccc tgtgacaagt tattacgat 289

<210> 1059  
<211> 300  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 1059

actcctctaa tgactatggc atcatttctg gcgctaaact gctgagagtt ggaagccatt 60  
ttctcaatta aatttctggc tttagcaaga gtcattgtct caaaggctcc accactggca 120  
gcataatca tacttctctc catattactg agtccttcat aaaaatattg gagaagaagc 180  
tgctccgaaa tctgatggtg agggcaacta gcacatagtt ntttaaactg ctcccagtac 240



tcatacaagc tctctccact gagttgtcta atacttgaga tatcttttct gatggatgtg 300

<210> 1060  
 <211> 338  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 1060

tcctctaattg actatggcat catttctggc gctaaactgc tgggagttgg aggccatctt 60  
 ctcaattaaa tntcttgctt cagcaggagt catgtctcta aaggctccac cactggcagc 120  
 atctatcata cttctctcca tattactgag tccttcataa aaatattgga gaagaagttg 180  
 ttctgaaatc tgatggtggg gcaactggca catagtttct taaatctctc ccagtactca 240  
 tacaagctct ctccactgag tagtctaata cctgagatat ccttcttgat ggctgtggtc 300  
 ctggaagcan ggaaaattnt ttctaagaat actctctt 338

<210> 1061  
 <211> 364  
 <212> DNA  
 <213> Glycine max

<400> 1061

gtagtttctt cttcccatg tctaccacac agcttgcggt ggacataaaa ggtcttccaa 60  
 gaattatggg aatgtcagca tcttcttcaa tgtctatcac tattgaaatc aacttgtgat 120  
 ggagcgatta gccaaactgga gggtcattgcg tgtgggcatt atctctatct ctccaagtca 180  
 tgcacacata gagagaggca ttaaattgat actaggtccc aagtctatga gagctttacc 240  
 cacagcaaca ttgccaatag aacacagtat agtgacactt ccatgggtctt tgtgcttcac 300  
 gggaaagatg cggtgaatga cagcactaca atttcttcc acaactattg tgtcactgtg 360  
 tatg 364

<210> 1062  
 <211> 426  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 1062

agcttctatg attagtcagg attataaagt ggtgccctaa aagatactgt ctccattttc 60  
 taacagcagt ggtgatcgca acgagatcac gaacataagt ggaagagggtg agtaacctgn 120  
 gacaaaactg tttgctaaaa aaagctatca gatgtcttcc ttgggacaac accgcaccca 180  
 taccgaacc caaggtctct gtctcgacca tgaaagggtt tgtgaagtca ggaagtgtca 240  
 agaatggaga atgtgtcata gcatgcttca atttgttgaa ggcaacgtca gcttcaaggg 300  
 tccaatggaa ctcttccttg gttagcaggc ttgaaagtgg tgctgccaaa gtagcgtagc 360  
 tccttataaa tcttcgataa aagccagcaa ggccgaggaa cccacggagg gtcgtgtca 420  
 tgcgtg 426

<210> 1063  
 <211> 439  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 1063

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 aatatcttaa gaaggggggg gttgaattaa gatatcacia actatttccc caattaaaat 120  
 tttattcttc tttaatgata atgtcaatgt tcccttatta tgaattacta taattcaatt 180  
 caaactaaac ttccttaatg caaaagataa ataacaataa ataaatgagt ttatggaaag 240  
 agaaagttca aactcagttt tatactgggt cggccacacc cttgtacctc cgtccagttc 300  
 ctaagcaacc cgcttgagag ttctactatc ttgtgaaaac cctttacaag atctgaacca 360  
 cacaaggaca acccctcctt tgtattcaga tcgctntaca aaaagagacc ctcagtccct 420  
 taatcactnt ccttaagta 439

<210> 1064  
 <211> 394  
 <212> DNA  
 <213> Glycine max

<400> 1064

agcttattaa ctgtacttta taagatataa aagcatcatt aaaaatataa tgcccaattg 60  
 tttagtaaac ataaattagc tagaattaag gtataacaac atttataacc aaccaaatag 120  
 tgtttatatg ttagttaaaa agttgattct gtcatacatt aaaaaaaaaa aacctttgat 180

tgttataaga aatcattata aacttttttaa aatttctcga ttgaactatc ttaccataaa 240  
 aaaatgttat actaataata gcatattcct gtattaaaga gaaaaaaatt atgaaacata 300  
 tagcaaatat gacaacttat ttatttatag ttaatggaac atttaaaatg ttttcactat 360  
 ttagatacaa aatataaaga ttattcttaa attt 394

<210> 1065  
 <211> 288  
 <212> DNA  
 <213> Glycine max

<400> 1065

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 tgttggaaac tgctcttgga gggaatggaa gatgagggat gtgctgcttc tgcaaactcg 120  
 aattaccagt ggaagattca ccttgacat aaattgtag ggaaattttt gtcacacat 180  
 ttttctggag tagagtgaag tttggcaagt tcatttgag atgaagaagg tgctacaggt 240  
 tgaggccat gacattgctt tcccgacgtc aatgaaatgg cactgaca 288

<210> 1066  
 <211> 401  
 <212> DNA  
 <213> Glycine max

<400> 1066

ctccgatgtt cgattcatgc gcatatatat attgagacac ttgatattga ataacaggaa 60  
 gcttctcgag aaattacaat ggccataact tttcacaccg atgtccgatt ccggcgcata 120  
 atatgtcgag acgctcgaaa ttgaacaacg gaagctctcg agaaactcca atggccataa 180  
 cttctcactc ggaggaccga ttcaggcgca taatatatcg agacgctctg aattgaacaa 240  
 cggaagctct cgagaaatca aacggtcata acttttact cagaggggcc attcaggcgc 300  
 ataatatatc gagacgctcg aatgaacat cgaaagcttc tagaaactca catggtcata 360  
 acttttact cggagggtcca attatgcgca taatatatcg a 401

<210> 1067  
 <211> 416  
 <212> DNA  
 <213> Glycine max

agctntgcat ccaataagat gttgctggct tttatatctc tgtgaattat tcttgttttg	60
gagttctcat gtagataaac caatccttca gctgtcccga tgataatttc atatctattt	120
tcccagttca attctttgcc cttgttttta tcttccatgt ataaattgag aaatattata	180
tttagttcac attatgatga attgataatc acttttagtg acccaaataa ggtgttatag	240
gtgaaaaggg tagtcaagcg tactgcatca gttcagtaat taccaaaaat gtagcgggtca	300
agacttcggg tgggtagaaa ttcataatac agcaggcttt caggctctga acaactgcat	360
cctaacagtc tgactagatt cttgtgctcc acgctactaa ttatgttgac ttcatt	416

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<223>      unsure at all n locations
<400>      1068
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<210>	1069
<211>	431
<212>	DNA
<213>	Glycine max

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acaagattga attgaccggg tagtataatg tgagtactac atttaatgtg tcagacttaa 120  
ctctttttga tgtagatgga gaagccaatt tgaggacaaa tccttttgaa gagggagaga 180

gtgatgagga caaggcaagg aacctttaga aggacttggg ggacctatgg caagggctag 240  
aacaagaat gccaaaggaag ttcttcaaca agtgtaacc atgctatttg aatttacgcc 300  
caagttacaa atggagaagc ttcggattgt taattgcacc atgtccaag aagagtagag 360  
ggtgccactt ttgttgagtg gttttattag cattctgtta gttgaaataa aggctcaaac 420  
ttgtgttaaa g 431

<210> 1070  
<211> 424  
<212> DNA  
<213> Glycine max

<400> 1070

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gtattcggac gcatgatccg aaatttagtt tcattcacc acttctcaa attttcaatc 120  
tagggagacc acaatacat tttaacatac acaaaacata agtatacaaa cagccatctg 180  
cttacaattt ccaatttaaa agatgagata ctgcttgtat cataggtaat gatagttaaa 240  
atgatgaagt acctcagata gcaataactc acaaaagtgg gtctgaaata tgtcaaatat 300  
aaaaatgcct ggagagggct cagacactat acttctaata ctttgttccg tattatcatt 360  
aattgctctc agaaatgtgg ggacaaagaa tgtagcagga tccacagagt acaactccc 420  
atgt 424

<210> 1071  
<211> 402  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 1071

ggcaggaccg aatgtccacc gagttttttc acttaanaag gagaacatgc tttagcaatg 60  
aaaaataaat cattcacgag agcaccatat tttagagaaa caatatactc atgccaaaag 120  
taattttcct tgtaatcgaa aatgaagggc aggatgtcaa catttagctt ttaaatgaac 180  
attcagggga aacgtcgggt caaactgaaa ctaggaataa aatcactcat agtgtataaa 240  
aactcacaca ggtaagtgtt ttaccctaat cccaaaccat agctgcacca tgactttatt 300

ttgcacatga tttcctatcg aaccaaaaga tcacacgcac aatcatggat caataggatt 360  
 ttctcgaggg tagtggtttt ggagaggaag ttgggtgttt cg 402

<210> 1072  
 <211> 253  
 <212> DNA  
 <213> Glycine max

<400> 1072

acatcttttt acttgattct tgaatggctg tcaaaggcct atatatgtgt gacttgggac 60  
 acgaatttgc taagagtttt tcataacaaa atagtcttat cctcttaaaa agcaaagtcg 120  
 tttatcctct tacaaattcc ttggccaaat tacttgtgat tcaataaggg aatatttgag 180  
 tgctcaaag gttcaatcta tctctttaa gagagattac ttcttttctt cttcttcatt 240  
 ctgaaaaggg atc 253

<210> 1073  
 <211> 388  
 <212> DNA  
 <213> Glycine max

<400> 1073

acagcaaat cagtcacaac agaataatta tgacctctcc agcaacaggt acaatcccgg 60  
 gtggaggaat catcccaacc ttagatgggc gaatccttca caacaacagc accaacaaca 120  
 acaacaacct tattttcaga atgcttctag cccaagtaga ccatacgctc ctccaccaat 180  
 ccagcagcaa tagccccaga aacagcaaac agttgaggct cctccgcaac cttcccttga 240  
 agaacttgtg aggcatgact atgcaaaaaca tgcaatttca acaagagact agagccttca 300  
 ttcagagctt aactaatcag atggaacaat tggctacaca gttaaatcaa caacagtccc 360  
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<210> 1074  
 <211> 364  
 <212> DNA  
 <213> Glycine max

<400> 1074

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 agatccttcc acccaagcat aaagatcttg gtagtgtaac tattccttgc tcaatcggag 180  
 aagtcaatgt gggaaaatat cttcttgacc tgggagccag tctcaatttg atgccactat 240  
 ctatgtgcac aagaacttga gagttggata tactgcccac tcgaatgact atacaattag 300  
 ttgaccgctc cattaccacg ccatatgcag taattgaaga tgtgctggtc atagtataac 360  
 attt 364

<210> 1075  
 <211> 365  
 <212> DNA  
 <213> Glycine max

<400> 1075

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 tatcgatata ttataaacct gaatcggacc ttagtggtaa aagatatgac catttgaatt 180  
 cgcgagagct tctggtgatc aattcgagtg tcactatatg tgaagcgcca aaatcggaca 240  
 ttcgagttaa atgttatgag cattcgaata tctcaagagc taccaattgt taatactgag 300  
 cggtgatat gtgatatgcc tgaatggaca tccgtgtaaa agtatgacat ttgaattctc 360  
 aagag 365

<210> 1076  
 <211> 426  
 <212> DNA  
 <213> Glycine max

<400> 1076

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 ccggatttgt attttttatg ggtgattgtg tttttacatg gagttctaag aagcaaggca 120  
 ttgtgacact ttctacttgt gaagccgagt atgtagctgc aatttcttgc acatgtcatg 180  
 ccatttggct aagaagattg ttggaggaac ttcagttgtt gcaaaaggaa agcacaaga 240  
 tctatgttga taatagatct gcacaagagc ttgccaagaa tccggtgttc catgaacgaa 300  
 gtaagcatat agatacaagg tatcatttca ttagagagtg cattaccaag aaagaagtag 360

aattgactca tgtgaaaact caagatcaag ttgcggatat tttaccaag cctctcacat 420  
 ttgaag 426

<210> 1077  
 <211> 349  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 1077

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 agccgaaaga gaaagagtgt atcatcaatg accttgtgaa gttcaagagt gggaaaactt 120  
 attatgccaa aattgggaaa gcttggaaaa gaaggctactt gctgtatggc cctccaagta 180  
 ccgggaaatc taccatggtc gcggctatgg ctaatttcat gaactatgat gtgtatgatc 240  
 ttgaatagac agcggggaag gacaattcag atntgagaca gctgttgatt aacacttcaa 300  
 gtaagtcgat tatggtgatt gaagacattg attgctccct tgatctcac 349

<210> 1078  
 <211> 280  
 <212> DNA  
 <213> Glycine max

<400> 1078

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 ctttatccaa ggtttcattt ccttgacgac tgatgatata ttcatacggc atgagattca 180  
 ttccatccct tactgcagtg actaaacaac actccgcgac aacatagtaa gcaactctct 240  
 cataaaactt gagaggctcc tcgatcagaa tgacgggatc 280

<210> 1079  
 <211> 374  
 <212> DNA  
 <213> Glycine max

<400> 1079

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ctctttttga tgcagatgga ggagccttgg atttgaggac aaatcctttt caagaaggag 180  
ggagtgatga ggacataacc aagggcaagg accatgaagc acttgaaggt cccatgacca 240  
gaggcagact taaacaagcc caacacgtca tagagacaag gctggtcatt tgtatagctg 300  
ccattgatga tgattgaacg cccaagtga gaaagatgaa cgcccagagg cagacgcact 360  
accaagacta ctaa 374

<210> 1080  
<211> 313  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 1080

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tagaacaacg gaagctctcg agaaattcaa atggtcataa cttttcacac ggagggtccga 180  
ttcaggcgca tcacatatcg agaccctcta aatntaacia cggaagctct cgagaaatac 240  
caatggtcac aactnttcac tgggacgtcc gattcatgcy cataatacat tgagacgctc 300  
caaattgaac aac 313

<210> 1081  
<211> 439  
<212> DNA  
<213> Glycine max  
<400> 1081

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tttcttgccc ccaactaaaca atttttctag attcgtccat actcatggtt gcctttgttt 180  
atgtttcttt aattattttg ttggtataca ttataaatc attgattgat atttaatgac 240  
tatggctggc attttttttt ttaaactcatt cctataataa atacaaatat taatttatc 300  
ttggaatata ttaatgtagt aaatatgtat tttgtgtcag tttggccgat gctaactcga 360  
gtgaaaatat tctttaaagt gtattaagtg tgttggagtt aggggtagga ataggccagg 420

tcaggcttta aaaggcctg

439

<210> 1082  
<211> 299  
<212> DNA  
<213> Glycine max

<400> 1082

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tcgcaataac ttttaactcg gatgatcgat tgagtcccgt aatatatcga gacactcgaa 120  
attgaaagca gaagctctga gcaaattcaa acgacaataa ctcttgactc ggatatccga 180  
ttgagtcatt taataattcg agacgctcaa aattgaatac agaagctcta tgcaaattca 240  
aatgacaata acttttgact tcggatgtcc gaatgagtca ttatataatt tgagacgct 299

<210> 1083  
<211> 437  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 1083

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attctggagg aggagggcat gcatatgtcg accaacacga ggatgaaagc ttcaaatttg 180  
cttatgcaac tgatctcatg tggctcaata ttagtgaaaa accatagttt tggccttatt 240  
ccttcctata agcccatggt ttatagttca aaatgtcctt tcttttgtgt tgggggagtt 300  
tgattgctta gtgattgagc atttgtagtt taatatTTTT ctattctttt tatctcaatt 360  
gacatctctt tgacttttat tttttcacct taactcagtt ntggcttaag gcaaagatt 420  
gagggttaatt gagaact 437

<210> 1084  
<211> 412  
<212> DNA  
<213> Glycine max

<400> 1084

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tataaagtta ttgtcatttg aattttgtga gagcttctat attcaattcc gagcgtcttt 120  
aattattaaa tgactcaatc ggacatttga gtgcaaagtt actttcgctt gaatctgctc 180  
agagcttctg ttttcaattt tgagcgtcta gatatttac gggactcaat cggacatccg 240  
agtaaaaagt tattgtcatt tgaatttggg aagagctcct gcattcaatt ttgagcgtct 300  
caaattataa aatgactcaa tcggacatcc gagtcacaag ttattgtcat ttgaatttgc 360  
ttagagcttc tgcttcaatt ttgagcgtct caaattatta aatgactcaa tc 412

<210> 1085  
<211> 440  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 1085

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aatcacgata acatttatca tgtctttgat ccaagagaaa ctggttgaag tctctaaatt 180  
aaaattgtaa attaagtctt gtagatagaa aaagtataat tgaaagtga gacctattat 240  
aagtgattaa gttctcaaaa aagattattc ttgaacataa ataatagata tttcacacta 300  
ataagtaaaa atattatagt aatattttaga atcttttgtt gttttaaaaa ttctagatgt 360  
aaagagataa tcactctctt attaattagt aatcaagagt cattntctta acatagaata 420  
catcattaca gatgaagtat 440

<210> 1086  
<211> 412  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 1086

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atacatatga ttctttcatg cagcatgatg ttcaagaact aaatcgggtt ctctgtgaaa 120  
aacttgaaga caaaatgaag gtatggcaag agatttggaa tgtttgttca tgattcttct 180  
tgatgagtga tcataccaaa tgggtgttgt atgttatttt tcttcacgaa actgttgttg 240

agggaactat acaaaagtta tttgaaggac accatatgaa ttacattgaa tgcataatg 300  
tagactacaa atcaactaga aaggagtcac tntatggtac ttncttatgc attttgaatt 360  
caattatatg gttagttctt ctttgatga attctattta gttttgcata tg 412

<210> 1087  
<211> 440  
<212> DNA  
<213> Glycine max

<400> 1087

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ctatgcaagt tgaaagcctt ggaggaaaga ggtatgcta tgttggtgtg gatgatttct 120  
ccagatttac ctgggtcaac tttatcagag agaaatcaga cacctttgaa gtattcaaag 180  
agttgagtct aagacttcaa agagaaaaag actgtgtcat caagagaatt aggagtgacc 240  
atggcagaga gtttgaaaac ggcaagttta ctgaattctg cacatctgaa ggcatactc 300  
atgagttctc tgcagccatc acaccacaac aaaatggcct agttgaaagg aaaaacagga 360  
ctttgcaaga agctgccagg gtcatacttc atgccaaaga acttccctat aatctctggg 420  
ctgaagccat gaacacagca 440

<210> 1088  
<211> 421  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 1088

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caatagcatc atttctggca ctgaattgct gggagttgga agccatcttc tcaattaaat 120  
ttttggcttc agcaggggtc atgtctccaa gggctccacc attggcagca tctatcatac 180  
ttctctccat gctgctgagt ccttcataaa aatattggaa aagaagctgc tctgaaatct 240  
gggtgtgagg gcaactggca cataattttt taaatctctc ccagtattca tataggctct 300  
ctccactgag ttgtctaata cctgaaatat cttttctgat ggttggtgtc ctggaagcag 360  
ggaaaatttt ttaagaaac tctcttaggt catccagctc ggatggcctt gaacaaggta 420

<210> 1089  
 <211> 410  
 <212> DNA  
 <213> Glycine max

<400> 1089

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aagaagggtgc gcttgcacaa gttccatgag ggggaccttg tgctgaaaaa gatgtccac 120
gctgttaaag ataatcgagg gaagtgggcc ccgaactacg aaggaccttt cgtcgtgaaa 180
aaggcttttt tcggaggggc cctagtgcctt accaacatgg atggcgagga gctaccttta 240
cccgtaaact ctgatgttgt cagacgatac tatgcttaga atctggggca attgaggata 300
tcgctgcatg ttcttttatt tttatgtgtg ttcttcttgg tttcccctag ggattcctgt 360
ctgctgtata tttcttgtca cagactttta aaagaagaga acatgagttt 410
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<210> 1090  
 <211> 412  
 <212> DNA  
 <213> Glycine max

<400> 1090

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tcggctaaac ggacttcata cttgacttga ttgttcacg tcccaaactt gaaccttagg 120
gattgctcta ggattatttc atttgggctt tctaggatga caccagtcct actccctttt 180
tcattggatg aacctatctg catacaaatt ccaccactcg gattgtagtt ctgtagtcgc 240
tgtcaattcc acgatgaagt ctgctaagca ttgagccttc gttagatccc ttggtttgta 300
cttgatccca aactcgaaca actagaccga ctaacatata attcgcgttg caagttctgg 360
gttcatcatg actggtaaga tatggtgcgt tgggttaaact atcatttgat ga 412
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<210> 1091  
 <211> 425  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 1091

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 aagtcgttgc tacaaagact actcaaaatg ccccaaaata caaggctaaa accctatact 180  
 acttgaatgc ccaaaataca aggcccaaac gaaggaaaaa cctattctaa tatttacaaa 240  
 gataagcggg ctcatacttg gtccatgggc tcgaaatcta ccctaaggct catgaagaaa 300  
 aatgcctaaa attattacac acaaattgaa gtttgggaacc tattggaagt cctaacacac 360  
 ttccatgana aggcctttgt acaaacttga agcatgaagt agtaattgca ataaaaatac 420  
 aacac 425

<210> 1092  
 <211> 442  
 <212> DNA  
 <213> Glycine max

<400> 1092

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 aatttatgat ataacctcgc atgaaaactt attaaataag tatttaatta aatttagggt 180  
 tggccaacat tattccaatg caaactttgg agtgagcttt tacaaaagtt ttatattttg 240  
 atttacgctt aaatgtaatt ttaatcatct tatcttattt aatatgtaat cttgattcct 300  
 ttattttaaa atagatattt ggtctcctta ttttaaaaaa taactaattt taatctctct 360  
 attctaatat ataaacattt ggtcctctta ctttaaaatt tttataattt ttgtcaaadc 420  
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<210> 1093  
 <211> 440  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 1093

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gccccatatg aagaaagatg tccataagca ttgcactaga tgtgtggcctt gtttacaagc 180  
 caagtctagg gtgatgcctc atgatctata cacaccctta cccatcccat ttgcaccttg 240  
 ggtagacatt agtatggact ttgtccttgg gcttcctaga acccaaagag gtgtagactc 300  
 tatctttgtg gtggaggata ggtttagcaa gatggcacac tttataccat gccacaaggt 360  
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 gcctaggacc attgtgtcag 440

<210> 1094  
 <211> 360  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 1094

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 atgaaaggca gacgactttc atgaagggaa gacacattct tcatgggtgtt ttgattgcca 180  
 atgaggctat agctgaggct aaggctaaaa ataaaccttg catggttttc aaatcggatt 240  
 tcgaaaaggc gtatgattcg gtttcttggg gttttgtcaa ctacatgctc atgaggatgg 300  
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<210> 1095  
 <211> 325  
 <212> DNA  
 <213> Glycine max  
  
 <400> 1095

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 ccaaggggct tcggtttcgt cgtttttgca gatectaaca ttctagatag ggttttggaa 180  
 gacaaacatg tcatagatgg cagaaccgga acgcttctat catttttttt gtcatttctt 240  
 tacttcatgt tccgattgaa aatattgtat tgtacttttt agcgtgattg gtgctgggtc 300  
 tgaattgggg ataactttga aacct 325

<210> 1096  
 <211> 392  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 1096

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 agttcatata gagtttttctt taaaatgggt cttattaaag ccctattcat gatatagcat 180  
 gcagtattaa cggcttcagc ccaaaaatat nttggaagag gagtgtcatt taataagggt 240  
 ctagcaatat cttccaaaga tctattnttt ctttcaaca actccatttg ttgaggggtt 300  
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 ttttcaaatt caccctcatg atcgctccta at 392

<210> 1097  
 <211> 404  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 1097

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 gagaaagtgg atctcagctt gtcttcactc agcaaccatc tctatcctta ttaatggcag 180  
 ccctacaaag gagtttacct catctagagg cttgaggcaa ggggatcccc tagccctct 240  
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 tctatatagc agctacaggg ttggtatgaa ttatgagccc acaaatttc tgcagtatgc 360  
 agatgatact gtttttgtgg gtgaggcttc ttgngaaaat gtct 404

<210> 1098  
 <211> 286  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 1098



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 gctgggggca acgaaatctt cttcccatca aaccttggat gcaaagtga tcgtatgcc 180  
 atatcagcta gaacttgacg ggtattcaag ccattcttcg tctcgcttg aatgttaagg 240  
 agccgcccaa tcacactgtc gcacactatt ttcttcacat gcataa 286

<210> 1099  
 <211> 441  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 1099

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 tcacgcacat aatatatcga gacgcccgat attcaacaac ggaagcactt gagaaaatca 180  
 aatggtcatt acttttaact cggagggtccg attcangcgc atcacatata gagacgctcg 240  
 aaattgaaca acggaagctc tcgagatatt caaatggta taactcttaa ctcgagggtc 300  
 cgattcatga gcataatata tcgagacgct ccgaattgaa acacggaagc tcttgagata 360  
 ttcaaatggt cataactttt cactcggagg tctgattcaa gtgcataaca catcgagacg 420  
 cttgaaatta acaacagaag c 441

<210> 1100  
 <211> 434  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 1100

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 ttccattaac caatttcgag ggtctcgata ttttatgttc ctaaatcaga cctccgagtt 180  
 aaaagttatg tccatttgaa tatctcgaga gcttccgttg ttttaatttcg agcgtctcta 240  
 tatgtgatgc tcctgaatcg gacctccgag tgaaaagtta tgaccatttg aatatctcga 300

gagcatccgt tgttcaattt cgagcgtttc tatatgtgat gcgcttgaat cggacctccg 360  
 agttaaaagt aatgaccatt tgattttctt aagagcttcc gctgttcaca ttggggcgtc 420  
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<210> 1101  
 <211> 448  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 1101

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 ctgtcaagta tgatgagctg gaaaatgagg ccgaaattat actatgccag ttggagatgt 180  
 atttttcccc tgctttcttt gacatcatga ttcacttgat tatggatctg gtcagagaaa 240  
 tcaaagtgtg tgggcctggt tatttgtggt ggatgtaccc ggttgagcaa tacatgaaga 300  
 tcttaaaagg gtatacaaag aatccttacc atctagaagc atctattggt gagaggtaca 360  
 ttgcaaaaga agtgattgaa tcttgttcag aattcattga gaaggctaaa cctattggcc 420  
 ttcctgagtc tcgcatgat gacagaac 448

<210> 1102  
 <211> 468  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 1102

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 gtgaaaaaag cttatatctt tgggtaacac acttttcgac ccctttctaa tatgatcttt 180  
 gatatttcaa aagtgtacta gtcttcttcg tatattggct tatgactcac ctgctgatag 240  
 tgtggacatg tatattcaga ttactaaaag cactgtagtg gaatgcttac aaaaaattgt 300  
 atcaaacatg tgtgcaatat ttggggatga gtacccgagg aggccaaata ataaagacac 360  
 atgaagacta caaattgaag cagtacatgg ttntctaggt atgttagggg tcattgattg 420

tatgcaatgg gaatagaaaa aaaatgtcca gttgcgtgga aaggtcta

468

<210> 1103  
<211> 459  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 1103

tataatatat tattacactc gaaattaaac atcagaagct ctcgatgat tcaaattggc 60  
ataacttttc acccgatgt ccgattatgg cgaatcacat atcgagacgc tcaaaattgg 120  
acaacggaag ctcttgagaa attctaattg tcataacttt taactcggat gtccgattca 180  
cgcgcatcac atatagaggc gctcgaaaag gaacaacgga agctctcgag aaattcaa 240  
ggtcataact ttncacactg aggtccgatt cagcattata atatatcaag acgctcgaaa 300  
ttgaacatcg aaagctctca agaaattcaa ttggatcat cttttcacac ggatgtccga 360  
ttcggcgcat atatgtcgaa cgcttgaaat gaacaacgga agctcttgga aattaaatgg 420  
tttaactttc acacggatgt caattcaacg catacatat 459

<210> 1104  
<211> 224  
<212> DNA  
<213> Glycine max

<400> 1104

agcttgccgc caccgagttt tccgactatg ctcttggtgt gtggaacaag ctacaaaagg 60  
agagagcaag aaatgaagag ccaatgggtg atacatggac ggagatgaaa aagatcatga 120  
ggaagcggta tgtgccggt agttactcaa gggacttgaa attcaagctc caaaaactaa 180  
cccaaggcaa caaggggggt gaggagtatt tcaaggaaat ggat 224

<210> 1105  
<211> 328  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 1105

tanagataaa ctaagaataa tgactagaaa tcttatctta gttcttgata ananaggcta 60

tcaaatacaa actgattagc taggctaaga ataccgatag aatatctcat catatattct 120  
 gagaatatat tctatcaa attaactgac tagcttggt aagaaaaccg atagaatatc 180  
 tcatcatata gtctgataat atattctatg aaacacagac tggattagta agctaacaat 240  
 actaataaga tatctaataca tatattttat cattaggtag gcttagaata cagatagaat 300  
 atcttatcat atattgtgat agtatatt 328

<210> 1106  
 <211> 353  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 1106

agctttccat tctttcggaa gtttatcatc tttattggct tcttgaggag gagcttcatt 60  
 gcttcctttt ccttttcctt tacaatctng tccatgaata tgcatttggt ctaaagattc 120  
 tgcaacatca tctaaaatat cctttcttga agaaatagca ttagactcat caaaggaaac 180  
 atgaatagat tattcaatag tcatagttct tttattatat attctataag ctttactatg 240  
 caaggaataa ccaaggaaaa ttccttcac tgacttagca tcaaattttc ctaagttttc 300  
 ttttccattg ttttaatacaa agcatttgcc accaaacaca tgttgatgag aga 353

<210> 1107  
 <211> 349  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 1107

cggaagctct cgagaaaatc gaatnntcat atcttttcac acggatgtcc gattcggnga 60  
 cataactgat ctagacgctc gaaattgaac aacggaagct ctcgacaaat tcgaatgggc 120  
 ataacttttc acacggatgt tcggttctgg gacataacac atctagacgc tcgaaatgaa 180  
 ccaccaaagc tctagagaaa ttcgaatggc cataacttat tacacgaata gtcgattggg 240  
 aaaataatat atcgagatgc taaaaattaa caaccgaagc tctagagaaa ttccaatggg 300  
 cataactctt cacacagatg tccgattcgg ggatagaata tgttgagac 349

<210> 1108

<211> 373  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 1108

agctntgatg caacattngg agaggttaat gtatcaacta tatgatgcgc tccatgagag 60  
 gttggatcaa atggagaata gagatcataa tgaagaagaa aggaggagaa gagggaaatga 120  
 tgggtgttctt agacaaaacc gaattgatgg tattaaactc aacattcctc catttaaagg 180  
 aaagaatgat cccgaggcct acttggagtg ggagatgaaa atagagcatg ttttctcatg 240  
 caacaactat gaggaggacc aaaaggtgaa gcttgccgcc acggagtttt ccgactatgc 300  
 tcttgtgtgg tggaagtgat tatgcaagtt gaagtggacg ttccattgg gaaatacaat 360  
 gataagggac ttt 373

<210> 1109  
 <211> 411  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 1109

agcttgaggg aaaaattgat gccttgggtca ttctagtaac tcagcttgcc atgaattaga 60  
 aatttgcac tgcacttggt gcaagagtct gtaatctatg ttttctgcag atcaccatac 120  
 agatctatgt ctttctttgc agcaatctgg agtcaatgag caacctgaag cttatgctgc 180  
 aaacattcat aatagacccc ctccagcagca aaaccaacaa aataattatg atctttcaag 240  
 caatagatac aatccagggt ggaggaatca tccaaatctg agatgggcaa gccctccaca 300  
 acaacaacaa cagcctgtcc ctcttttcca gaatgttgcc ggnccaagca agccatatgt 360  
 tcctctctca atgtagcaac aacagcaaca gtcacaataa aaacaacaag c 411

<210> 1110  
 <211> 427  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 1110

gagatggtat ctgggtcttag aaaataattt gctaagagcc aattcggtgc gattggccaa 60

cctgaggaat ggtgtagtct tgctgctgac tacttgcatc gtggccccct gcagctccca 120  
 ttcataacc tagggatgcc tataggtgtt aaccctagaa ggaaggtggt gtgggagcct 180  
 ataatacaga aatttgaagc caaattgaac aaatggaacc acagaagcat ctctatggct 240  
 ggcagaatta ccttaatcaa tgctgtcttg acagctntgc ccttgttnta tatgtctttn 300  
 ttcagggccc cttcagcagt catcaagagg ctactacta tccaaagaca atttctttgn 360  
 ggtggaaact tggaaggaaa aaagatagct tggatctcat ggcagcaagt gtgtgctcct 420  
 agagaaa 427

<210> 1111  
 <211> 450  
 <212> DNA  
 <213> Glycine max

<400> 1111

cgattgtcac gtgctcatgc attatttggt atccgtggct atacgagaca tcttgccaaa 60  
 caaagacagg ttagcaataa ctgcctgtg ctttatcttc catgctatat gtagcataga 120  
 cattgatcca gtcattgttg atgaaatgga aaatgaggcc gcaattatac tgtgccagtt 180  
 ggagatgtat tttccccctg ctttcttaga catcatgatt cacttgattg cgcattctgg 240  
 cagagaaatc aaatgctgtg gtccgtgtta tctacgggtg atgtacccgg ttgagcgata 300  
 catgaagatc ttaaaaagggt atacacagaa tctatatcgt tcacaagcat ttatcggtga 360  
 gaggcacatt gcagaagaag ccattgaatt ctgtctgact acttacagaa tgctaaacct 420  
 gttggacttc ttgagtctct gcatgatgac 450

<210> 1112  
 <211> 447  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 1112

tgctctacat tacattgatg ttgtatttta ttggaggatg ttgtatgcca ttnttgtttt 60  
 aagggtagca tttcttggtg aaactaactt tccaaatggt tgcattcgca ggaaacggcc 120  
 ccgaggaagt gatgcaatcc tccccccaa gggcattgga tagaacactc caataagatt 180

gggccaaaaa tgcaagagaa ggccctaggg ttctcatgag ccttagggta gatttctgag 240  
 cccatggggc aaggttgggt ccaattatct ttgtacatat tagactagga tgcattata 300  
 tttggtcctt gtatttaggg atccatattg taggtagggt accctagaaa tataggattn 360  
 ttcagccctt gtatttttgg gcacctagac tagtntttgt attaggggta gttntgtaat 420  
 ttcacatgca ctaagtggat atttgat 447

<210> 1113  
 <211> 346  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 1113

tgtactatng gtcatatgca tatgatacaa tcaaagcctt ctcttcacca accaggatc 60  
 cgaatgcttg cagtgc aaac accgctgata tcaacgctcc gcgcgtcttg ttgctggcat 120  
 atttatacat gattgtggct gaaagagggt agtctccacc gatggcaaac gctagacaga 180  
 atctgaagaa gcatagagag gccatgacac cctgtggagc tgacccacag gagagttgct 240  
 gggcaaggga ccacactacc atgagaatga gcgttagtgc ccatactcta tatctcccca 300  
 tttaggcacc aagccaacca aataataatg gtccgtatta tgcgcc 346

<210> 1114  
 <211> 409  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 1114

atgctttaat cagtgttttc tctaactcat cttttcttta aatcaacctc ccggtgtcaa 60  
 aaatcacttg atccatgaca tgcactctaa aatactttgt cttatgttta aggtgtttca 120  
 tggaaatata ttaaactgta cttcatcatc ttgtaccttg acagtgagtg ttccatcatc 180  
 cacatcaatc acaacttttag aaatcttgat gaaagatcta ctaagaatca attgaacttc 240  
 attgccttca tccatatcca tcaactgaaa gttgactgga aagacagatt tgtcaacttt 300  
 tatcaatata tctacaacaa tgccataagg aagctgtggt gttctgtcag ctaactgcaa 360  
 acccatcctt gntgggtctga tttcaacttc tcctatctgc ttgatcatg 409

<210> 1115  
 <211> 474  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 1115

ctcagcttat aaggcacctg ttctagctct ttctgactct tctatatctt ttgatctaga 60  
 atgtgatgcc tctggagtgg gagttggagc tgtattgtta caaggtgggc accctattgc 120  
 ttattttagt gaaaaaatc atagtccccc cctcaactac cccacctatg ataaagagcg 180  
 ttatgcctta ataagagccc tccaaacttg ggaacattac cttgtttcca aggaatttgc 240  
 cattcatagt gatcatcaat cacttaagta cattagaggg caaaacaagc taaacaaaag 300  
 gcatgcagaa tgggtagagt acctatagca attttcatat gttatcaaat accaaaaggg 360  
 aacaacaaat gtggtagctg atgccctatc tacgagacac acattgtntt gctccctang 420  
 agctcaaatt ttaggatttg atcatatcan ggacttggat gcttttagatg aaca 474

<210> 1116  
 <211> 341  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 1116

agcttgtaat cgattacaca tatactgtaa tttattacca gaagagagtt tcagaanaca 60  
 ttctcaacag tcacatcttt ttgtgtgatt cttgaatggc tatcataggc ctatatatat 120  
 gtgacttgag acacgaatth gataagagtt tttcaaaaca aaaaggtctt atcctcttat 180  
 aaagagaaat cgttttatcc tcttacaat tccttggcca aattacttgt gattcaataa 240  
 ggaattatth gagtgctcac attgttcaat ctatctcttt caagagagat ttcttcttct 300  
 cttcttcttc attntgaana gggattaaga gaccgagggt c 341

<210> 1117  
 <211> 374  
 <212> DNA  
 <213> Glycine max

<400> 1117



agcttatgca gcatatatat actatataacc ttctctgcgc agcagcagac tcatacgctg 60  
 gctgacaatt atgacgtttc cagcagccga tacaacctg gatggatgaa tgcccctaac 120  
 ctcatatgtg acaggacctc acaacaacca cagtagtctg gtgcttcctt aaaaaagct 180  
 ggtgggcca gctgaccata cattcatcca ccaatccaac aacaacgaac cccccggaca 240  
 cagccaacag ttgaggcgcc tccacaagct ttctcgaag aactagttag gcaaacgact 300  
 atgcacaaca tgcagtttta gcaagagacc agagcctcca tttagagctt aaccgatcag 360  
 atgggacaat tagc 374

<210> 1118  
 <211> 423  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 1118

atcttagagc acctgcagct gcagcttggg agggagggat gttcattggt ctttgctga 60  
 attntggaag caacgggtgc aactccgtga cccgaaacca catgacccaa gtactcaact 120  
 tgtggttggg caaatgacca tttagagaac ttgagcacga attggttgtg aaggagggtc 180  
 tcgaatgctt gctcaagatg aatgagatgc tcaggcaatg tacgactata aattaaaatg 240  
 tcgtcaaaga aaacgatgat gaatcgccgg aggtaaggcc ggaaaatgtc attcatgggtg 300  
 gcttggaacg acgaatgtgc gttacacaaa ccanacggca tcactttgaa ttcatagtgg 360  
 ccgtggtgag tgcaaaacgc agtcttggcc acatcggatt catgcatnct tatctgataa 420  
 tat 423

<210> 1119  
 <211> 372  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 1119

ctactcgga ggcccgatc aggcgcataa tatatcgaga ctctcgaaan tgaacaacgg 60  
 aagctatcga gaaattcaaa tggtaatac ttcgaactcg gaggtcctat taagggtcat 120  
 aatatatcta gacgctcaaa attttacaat ggaagctcta tggctatata aatggtcata 180

acttttccact cgaagggtccg attaaggcgc ataatatatc gagacgctca aaattgaaca 240  
 atggaagctc ttgagcaatt canatgggtca taacttgtca ctggaggta cgactcagct 300  
 gcataatata tcgtgacgct cgaaattgaa aatggaagct cttgagcaat gcaaattggtc 360  
 ataacttgtc ac 372

<210> 1120  
 <211> 378  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 1120

gctntgatgt aacatttggga gtgggttaatg aaacaacgag atgatgcgct ccatgagagg 60  
 ttggatcaaa tggagaataa agaccatatg aattgctcaa gagcttccat tgtttaattn 120  
 cgagcgteta gatataat ggcctcaat cggacctncg agttaaagc tatgaccatt 180  
 tgatatgtc acgagctt acgtttcaat ttcgagcgtc acgatatagt atgcacctga 240  
 atcggacctg cgagtgacaa cttatgacca tttgaatcgc tcaagagctt ccattgcccc 300  
 atcttgacgc gcacgatata ttatgcacct gaatcggacc tgcgagtgc aacttatgac 360  
 cattcgaatt gctcaaga 378

<210> 1121  
 <211> 355  
 <212> DNA  
 <213> Glycine max  
 <400> 1121

ttctgctgga tcttcatggt ggaaaatcac cattaaagga cctcattgaa gctaaaagat 60  
 ccagcctcca tagaaacccc acaagcaagc tttcatcatc acgataccgg gttctattgg 120  
 tgagggtgat gtaagcaaag ctcttatact tgggagctag tatcaattta atgcctctct 180  
 ccatgtgctg gcgactttga gagatagaga taatgccac acgcatgacc ctccaattag 240  
 ctgaccgctt catcacaagg ccatatggag tcattgaaga tgttttggtg aaaggtaaac 300  
 cccttatatt tccagatgat ttcattgcat agatatataa gaagatgctg acatt 355

<210> 1122  
 <211> 345

<212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 1122  
  
 cggatcctta agcacctgct gcttgcaagc taacagtttt tttttcttag tgcatacttt 60  
 tcaaaattag tatcaaaata atcttcaa at gattcatatt ntagtgtatt ttaaatttct 120  
 ttgaattttt atctacatat gaattaatta tcaaataatt gtttattaat gcaaaatttg 180  
 ataaatatga tatgcttgaa aggacacttt catctaattt gaacttttac aatagaatta 240  
 ttcaattaga agttattaaa aggtattaaa tgatgtgata ttgaacgcat tacattcatg 300  
 tcactcgatc tctcctatat atgcattaat tggtatatat taata 345

<210> 1123  
 <211> 402  
 <212> DNA  
 <213> Glycine max  
  
 <400> 1123

tggtactgca tgatggcagc aatttcgaca gatagatgac atgtaacatg ttgagtccac 60  
 ttctcaaatt tctggaaatc cagagggaaa actgaaagat gataagtaaa ttatgcagta 120  
 taaacctttt atgcagtaac aagccccaaa cacatgactt gtaaataaca atttgaatag 180  
 taaaatttga ttacactgtg aacaattata taatccagag aaattttgga actctcaact 240  
 tccatttcaa attgttatga caagctacta cttccatttc aaattgttat gacaagctac 300  
 tgtggtgaac catctgcttg aaaaaattaa attaaatgtc atatgagcca atggcccaca 360  
 tatcacatat aaaactgcta agaacagata tgcacttgat ct 402

<210> 1124  
 <211> 214  
 <212> DNA  
 <213> Glycine max  
  
 <400> 1124

gagcacctcg atgtattatg cgcttgaatc gaatctccta gtgaagagct actaccattt 60  
 gaattcctgc agagctttca ttgttgaatc tcgagcggat cgatatatta tgcacaagaa 120  
 tccgacctat gagtgtaaaag ctatgaccag ttttaattgct ggagagcttt cggatgatgaa 180

tttctagcac ctcgatatat tatgcgctg aatc

214

<210> 1125  
<211> 463  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 1125

cactaagctt ctttgagaga cttgcttgag aagctagagc ttagctacac acacccctct 60  
cataactaag ctcacctcct tgagaagctt ccttaagaag attcctaaag aagctagagc 120  
ttagctacac atacctctct aatagctaag ctcacctcct tgagatgaga agctagagct 180  
tagctacaca cccctataa tagctaagct ccccccatg acaataaca tgaaaataat 240  
ataaaaaaag tccttattac aaagacaact cacaatgcc cgaaatacaa ggctaaaacc 300  
ctatactact agaatggcca aaatacaagg cctagacgaa ggaaaaacct attctaatat 360  
ttacaaagat aagcgggctc atacttagcc catgggctcg aaatctacc taaggctcat 420  
gagaacccta nggcctttcc ttggatctct agcccaatct act 463

<210> 1126  
<211> 331  
<212> DNA  
<213> Glycine max

<400> 1126  
  
ttctggcttc aattcatcag tgggcttgcc ttgtgtgagc aacatcttgc gatgtatcca 60  
ggctttgatg acagcgttgc aagggctgct atccactgat atgatgaaag ccaccattct 120  
tgctttccaa tgtacataga tgatgccatc atgaattggc ggactgatca ctggtgctcc 180  
ttctatctgc atgttcatca gaattgaact gcctagatct cactcgagga tttctagtgc 240  
acgctctgat accaattgaa attctgatac tgaagacaga tgccgcacat gatgccacga 300  
cattactctg aatgacatgc agattgtgat g 331

<210> 1127  
<211> 413  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations

<400> 1127

ggaactgag cagccatcat tccanattctt ggtgggaagc caaagacaaa accatcagca 60  
tcacggagct catttctggt gatgattggt acatcactct tgggcgggtgc tctcaatgcc 120  
tcaagctcct cagttgatag tgtctcgggt acctgctcat atgtttagtt aagtaaaaaa 180  
ggaaatcctt taaataccct attnttattc tcaataatga agttgttttc tacccttgac 240  
taaataaatg cttacaacat cccttttagct agagtaaatt tgggaaatta agtcttagtc 300  
acagagatca tacagaatan agcacagggg ccattggact aaaagtgaca taagttgaat 360  
taatgcatat acagcattag gaattntgat ggattaaaaa tgaaaattac atg 413

<210> 1128

<211> 445

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 1128

cttctctatg gatcaagctg gtgaggaaag aaagttgcaa ctgagtgagt tagatgaaat 60  
ccgcctagaa gcctacgaga acgccaagtt ctacagagaa aagaccaaga agttccatga 120  
tagcatgata gttaaaaaag acttcgtggt tgggcaaaaa gtgttattgt ataattctag 180  
gcttggactc atgagtggtgta agttgaggtc taagtggatt ggctctttct gtgttactaa 240  
tgttnttccct tatggtacag ttgagatcag aagcgactcc acaacaaga gcttcaatgt 300  
caacagacat cgacttaagc cattcctcac gaacccttct ttagtggacg tagtggtgga 360  
agagacttct tactccccct actctttctc accatgactt agggagtttt atttctatct 420  
cctttttggt ttattacact gctga 445

<210> 1129

<211> 411

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 1129

tgcagcttaa cattcaattt cgagcgtctc gattatgacg ggactcaatc agacatccga 60  
gtaaaaagtt attgtcgttt gaattggctc agagcttcaa cattcaattt cgagggtctc 120

gatatatattgc gggactcaat cagacatccg agtaaaaagt tattgtcggt tgaattggct 180  
 cagagcttca acattcaatt tcgagcgctc cgatatatga cgggactcaa tcagacatcc 240  
 gagtaaaacg ttattgtcgt ttgaattggc tcagagcttc aacattcaat ttcgaggcgc 300  
 tcgatatatt acgggactca atcagacatc cgagtaaaaa gttattgtcg tttgaattgg 360  
 ctcagagggt caccatttca ntttcgaccg tctcgatata ttacgggact c 411

<210> 1130  
 <211> 480  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 1130

ctaagcttta gccaatgaac tntgttagtg cttagctcta ctggagttaa taagattggc 60  
 taagattttg ttaaaacata agcacttaga caatgaagga aagctggagt tgctgcacat 120  
 gatgtccaac gttatgtcaa agaataagat cgggctgcac aatgcacaag gcaagatgaa 180  
 atgtctaattg aagaattgaa gctgcaggat tcacgatgtc ggatacaatg tccaggacat 240  
 cctgcctgaa aatactggaa ttgctaaaag cattgaagct gcaggatcca cgatgtcgga 300  
 tacaatgtcc aggacatcct gcccgaaaat actagagttg ctaaaagcat tgaagctgca 360  
 ggatccacga tgtcggatac gatgtccagg acatctggcc cgaaaatact ggacatataa 420  
 atctgttata tctttaacag attattgtgc agtttagcaag agataagatg atctattctt 480

<210> 1131  
 <211> 357  
 <212> DNA  
 <213> Glycine max

<400> 1131

tcttgtacgg taaagtctca cgatagtgac ttgctcatgc aacaattgtt agtcgtggct 60  
 atacgatata tcttgccaaa caaagtcagg ttagcgataa ctcgcttggt ctttttcttc 120  
 catgctatat gtagcaaagt cattgatcca gtcaagtttg atgagttgga aaatgaggcc 180  
 gcaattatac tgtgccaagt ggagatgtat tttccccctg ctttctttga catcatgatt 240  
 tacttgattg tgcactgtgt cagagaaatc aaatgttgtg gtctgttta tctacaatgg 300  
 atgtaccggg ttgagcgata catgaagatc ttaaaagggt atacaaagaa tctatat 357

<210> 1132  
 <211> 496  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 1132

actcagctta cacaatntaa ttttctcaaa cctcgagttt ggaagaccaa ttactaagtc 60  
 tttcttaact agatgattaa gatgatgcat gtttatgtgt gcagtcctac aatgccacaa 120  
 ccaagagtca tctatcttac caaacaactc agctcctaaa atgatgcatg ttcaatattt 180  
 aacatataga tattacctac tctcttgcca atatggacat cctgaccaga catagcttca 240  
 ctaataagac aataattctt gttgaattca attttgaagc ctttgtcaca tagttgacta 300  
 ataccaaga ggttatgctn tagtccatcc acatatagaa ctntctttat ctgagttntg 360  
 tactgatttc caatatttcc ttcttccatt atctttcctt tgttattggc tccaaaagtg 420  
 acatatcctc cttcttttga cacaaagtaa tgtagctcca tgtggagctn gtaagccttg 480  
 gatcttcttc atcaac 496

<210> 1133  
 <211> 388  
 <212> DNA  
 <213> Glycine max

<400> 1133

agcttgtagg cctaggatct tcttcatcaa tggattcctt tgcttcttgg aaaatgaatg 60  
 gcagcggaat ggagaatgat acgagagaag gagaccact tcaggagaag atgagtctag 120  
 aagaagctca ccaccatagg aggccatgga taatagcttg ggggaagaac gagatgaatg 180  
 aagggagagg gagagaagac acgaaatctt gtgctccaaa tgagctctga aatctgaatt 240  
 gtaatattct aatgatcaaa gttgaaaaaa attcacacac atgacctcta tttatagcct 300  
 atgtgtcaca caaaaattgg acggaaattc agattctctt gaatttgtgg agccaaactc 360  
 tggcagccaa attcactaat tatgatta 388

<210> 1134  
 <211> 450  
 <212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 1134

tcagcttagc tacacaccac cctctcata actaagctca cctccttgag aagtttctt 60  
atgaagattc ctaaagtagc ttgagcttan ctacacatac ctctctaata gctaagctca 120  
cctncttgag atgagaagct agagcttagc tacacacccc ctataatagc taagctcacc 180  
cccatgacaa aaaacatgat aatacaaaaa agagtcctta ctacaaagac tacttataat 240  
gccccgaaat acaaggctaa aaccctatac tactagaatg gccaaaatac aaggcccaga 300  
cqaaggagat acctattcta atatttacia agataagcgg gctcatactt agcccatagg 360  
ctcgaaatct accctaaggc tcatgagaac cctangacct tcccttgat ctctagenca 420  
atctacttgg agtcttctac ccaatgccct 450

<210> 1135

<211> 305

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 1135

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tgggtgtgtg gatgatttct ccagatntac ctgggtcaac tttatcagag agaaatcaga 120  
cacatttgaa gtattcaaag agttgagtct aagacttcaa aaagaaaaag actgtgtcat 180  
caagagaatc aggagtgacc atggcagaga gnttgacaac agcaagttta ctgaattctg 240  
cacatctgaa ggcatactc atgagttctc tgcagccatt acaccacaac aaaatggcat 300  
agttg 305

<210> 1136

<211> 441

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 1136

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ggacatatct tgataggtgt atcatcacat gcgcaaactg tgtcagcaac attggttgta 120



tttatTTTga aacatcctac ggattctgtc tttctcttct tgttatcttt ttccaaatcc 180  
 tttacacgct gctgaagata tttcacatgc tctatagcgt tgganagaac agaagccttg 240  
 tccatctaca cattagagat atcttacata ttatTTTata agctaagat ggattgggtg 300  
 gatctaaatn tcttaagttt ggctttgaaa ttacaataac aacaagaata aatTTTatTC 360  
 cagtggatga ctcagatata tgaatatcga tcacaagaga tcattaaact agcttaaaat 420  
 caaattctgg gaatatatta t 441

<210> 1137  
 <211> 384  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 1137

cctcttcacg ttaggaatat gaatgtagca tatatatcca tagattctta cgtgctntgc 60  
 tgatggcttc ttcccgttcc aagcttcaat tggagtcttg actTTTtacag acttagttgg 120  
 acatctgttg agtatgtaaa cagcagtgtg gactgcttca gcccagaatg tgtaggtaa 180  
 tcccttctcc ttgagcattg atctagccat tatcataact gtgcgattct ttctctcgaa 240  
 cactccattt tgggtgaggag aatatgcgac tgntagtgtg cgcttaatgc cttcactctc 300  
 acataatctt tcaaactcgc gagaggtgta ctctttgccg tgatcacttc ttagtacttt 360  
 tatacatttt ccactgtgat ttTC 384

<210> 1138  
 <211> 422  
 <212> DNA  
 <213> Glycine max

<400> 1138

gacaatataa tccatatctt gtgataaata ataatgtata atatataaag agacatctaa 60  
 ttacttagca gatcatagtc cattaggtaa cattatatga tataagcaat ttatttcatt 120  
 ttaccttctt taaatttctc acattcctta tttggaagca ttagtaatgg tgcctctttt 180  
 aaccaatctt gagtgcaaat aatagtatcc actatTTTtg gtgtaggga gttgcagtat 240  
 ggatcaagca ctcttccacc attgctgaat gttgacttag aagtcacaat ggtgacatgt 300

atagccagaa catctctcgc aatatgttca aggaccaaga attgcccaca ctttaatctg 360  
 caccaatgtg gatatecaaa gccttagcct ctaaggattc cttcatgtat ctatctaact 420  
 ca 422

<210> 1139  
 <211> 421  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 1139

tgacaatgac tntntactcg gatgtctgat tgaggcccgat aatatatcga gacgctcgaa 60  
 attgaatgtg gaagctctga gccatttcaa acgacaataa ctatttactc ggatgtctga 120  
 ttgagtcctg tcatatatcg agacgctcga aattgaatgt tgaagctctg agcaaattca 180  
 aacgacaata actntttact cggatgtctg attgagtcct gtcatatatc gagacgctcg 240  
 aaattgaatg cggaagctct gagccaattc atacgacaat aactttttac tcggatgtct 300  
 gattgagtcg cgtcatatat cgagacgctc gatattgaat gttgaacctc tgagctaatt 360  
 caaacgacaa taactttctta ctcgatgtc tgattgagac tcgtcatata tcgagacgct 420  
 c 421

<210> 1140  
 <211> 390  
 <212> DNA  
 <213> Glycine max  
 <400> 1140

tctctctctt gtgcaactgt ctcactctat tctcaggtgt ataatagaagc tttgcaggtt 60  
 caggtgcagg tggtgctact ggtggaggca cttgaatttg gttgctatac ctcaacgtga 120  
 tggcactcac atgtttcgga ttttgcacag tttgtgaatg caatttgtca gaattctggg 180  
 actgagctcg gttcatctga gtagccatct gccccatctg atttgtcaga ctttgaatgg 240  
 aggctcttat ctcttgctga aattgcatat tatgcatggt cattgtgcct gactaacttc 300  
 ttttaaggag gttgatgacg agcctaaata gttgttgtct ttgtgggact gctgctattg 360  
 ctgatgctgt tttgaggatg aacatatggc 390

<210> 1141  
 <211> 428  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 1141

tggatntcct gttagtacgg aatctttcct tcctaagatg gagccaaacc cagtcacctt 60  
 cattaagaac tagctccttt ctctctctat tgcccttagt tgaatacacc ttctgttgga 120  
 tctctatttg tgtcttaacc ctctcatgca acttctttac aaactctgac ctagattccc 180  
 cttctatatg tataaaaagaa gtgtcaagtg ggacgggaat gaggtctaata ggtgttaatg 240  
 gattgaaccc atagacaacc tcaaaaggcg attgcttggg ggttctatga accctccclal 300  
 tgtacgcaca ttctacatga tgaagatact catccaaga ttatggntgc cttttagaag 360  
 agcccttata agaggggata aagacctatt cactacctct gtttgcccat cagtctgtgg 420  
 atgacaac 428

<210> 1142  
 <211> 475  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 1142

tattaggacc tataatactc agcttatgag agagtcaaag atcaaattga gagganaaat 60  
 ataagctatg ctaaacaagc caacanaggg agaaagaagg ttgtcttcga acccgagat 120  
 tgggtttggg tgcacatgag aaaagaaagg ttccggaac aaaggaaatc aaagcttcaa 180  
 ccaaggggag atggaccatt tcaagtgctt gaaagaatca atgacaatgc ttacaaagtt 240  
 gagctgcccg gtgagtataa tgtagttcc accttcaatg tctctgattt atctcttttt 300  
 gatgcagatg gagaatccga ttgaggaca aatccttctc aagagggaga gaatgatgag 360  
 gacatgacca agagcaacgg caatgatcca cttgaaggac ttggaggacc tattgatgat 420  
 gacatgccaa gagcaatggc aacgatccac ttggaggact tggatgacct atgac 475

<210> 1143  
 <211> 284  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
<400> 1143

agcttgaacc ctaacaatgg aagctctcta tatittcaaa tggnnntanc ttctcagacg 60  
gatgtttgat ttggacacat aatatatcga gacgctagaa attgaacgat tgaacctgtc 120  
gagaaattca attggtcata acgttacaca cggatgtgcg attcggggcg attatatatc 180  
gtgactgttg aaattgaaca atggaccctt ttgagatatt tcaatggtea ttactatata 240  
acacgaatgt gcgattcagg gactaaatat atcgagacgt gtga 284

<210> 1144  
<211> 312  
<212> DNA  
<213> Glycine max

<400> 1144  
agcttactgg gggacatctt gacttgcttt cctatctgac attcaccaca gattctgcct 60  
tcttctatct tcagatagag gatgcctcta acaccacctt tgtgaatgat ttcttctatg 120  
cctcttaagt gcagatgtcc aaatctttga tgccatattc tgacttcata ttctttggag 180  
gatagacatg tggaggagta cctgggtttt tgagggtgtcc ataggttagca gttgctcttt 240  
gatctgctgc ccttcattag aacttcaact tactcatctg tcaccaagca ttctgactat 300  
gtgaagttac tt 312

<210> 1145  
<211> 168  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 1145

gtccgatnch ggccgataag agatcgagac gcttcaaatt gaccatcgga agccttagag 60  
aaatttcaat ggtcataact tctcactcgg aggtccgatt caggcgcata atctatcgag 120  
acgccc aaat tgaatcatgg aagctcttga gcaattcaca tggtcata 168

<210> 1146  
<211> 348  
<212> DNA  
<213> Glycine max

ctatgattgt	cacgtgctca	tgcatTTatt	gttcgtcttg	tctatacgag	acatcttgcc	60
taacaaagtc	aagttagcca	taactcgccT	gtgctttttc	ttccatgcta	tatgtagcaa	120
agtcattata	tcctgtcaca	gttgatgagt	tggaaaatga	agccgcaatt	atactatgtc	180
agntggagat	gttttttccc	cctgctttct	ttgacatcat	gaatcacttg	attgtgcatc	240
tggtcagaga	aatcaaactc	cgTgggtcctg	cttatctacg	gtggatgtac	ccggtngagc	300
gatacatgaa	gatcttaaaa	gggtatacaa	agaatctata	ttgtccag		348

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<223>      unsure at all n locations
<400>      1147
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agctatacat	ttgctattac	taatatattga	ttttgtttta	agcatctgct	tacttgacaa	60
gacgtgcaac	ttgagtaata	aactgagaga	ccgattcttg	agttgccaac	actgaagaag	120
atggttctgc	taaaggcttt	gcgggtggtt	cctcctttga	tttggttttc	ataggaggag	180
aagtagcatt	ggaggaacta	tcaagggcaa	ccttgttgaa	gccaaaaaga	tgagaccaat	240
atgtgtgtca	caggagaaga	ttttaacaag	tttacacatt	ctagtgatgt	ttggatgaac	300
ttcttcaaca	acacttgagg	aagatattaa	taaggtaaaa	tggattaaac	tanaatcaac	360
ttatgca						367

<400> 1148

489

atggaatacg agcttattgt gagtcggagg atgagctgat aaagagacga ctttttttga 300  
gcaggcagtc aacgaagtgg ctttttttta gaggaatt 338

<210> 1149  
<211> 352  
<212> DNA  
<213> Glycine max

<400> 1149

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ccatcttgaa catgtcctaa ttgcgcaaac gctgtaatat caattaacaa ggttctatca 120  
tcacgcacca catgtgtcga ctttttcata taataaaata ttgtcaaagc ctcgatgcta 180  
caaccattct gatcatatcc agccattatc gtattacaag aattaacatc tcctctgcgc 240  
atttcatcaa ataaccgct ggctgcaaga acgctacccc gatttcgctt aaccatctat 300  
caaactccac gccctttttc cacttaacat accctaccga cattgaattc ca 352

<210> 1150  
<211> 385  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 1150

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tgattttgct cagagcttct gttctgaatt tccagcgtgt cgatatacca cttgtcacao 120  
tcagacatcc gagtaaaaaa ttattgtcgt ttgaatttgc tcagagcttt tggtttcaat 180  
cttgagtgtc tcgatatatt acgggattaa ttcggacatc cgagtaaaga gctattatcg 240  
ttagaatttg ctgagagctt ctattttcaa ttacgagcgt ctcgatatac tacgggacac 300  
aatcggacat ccgagtaaaa agctattggt ggttgaattt gcttcaagcc tttgttttga 360  
attttgagcc gttctgttta ctatg 385

<210> 1151  
<211> 386  
<212> DNA  
<213> Glycine max

<400> 1151

aaatttagga ggctggaggg gggatatcca tgaaagcaag ctgagaggac taccattatt 60  
taatctcccc gctcgtctatt gttaatgatg tgtacttgtc tagaagttta gaactaaatg 120  
ctcacaagag ttcaacatca catctttcac gcccccgag ctattacacg ttttcgtccg 180  
tgggccaaga taacccaag ctgagtacga aataataaat attacctcta tatcattgat 240  
tatttttcaa gataaacatg ggtctatttc ttaaagcaca aatcataacg tctttccacc 300  
ttcaagaagt tcaaagctgc agtaacaaaa gatagtggct gagagatcac agtcattacg 360  
actgatcgag gatgagaatt cacttg 386

<210> 1152

<211> 444

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 1152

gcaaacttct tatatccata aggaaattca atcaataggc ctccaatctt taatggagag 60  
ggttaccact actcgaaaac ccgaatgcaa atttttattg aggcaataga ctttaattatt 120  
tggaagcca tagaaatagg gtcttatata tccaccacag tagaaagaat tacaatagat 180  
ggaagcacat caagtgaaag cataacaata gaaaaaccta tagatagatg gtctgaagag 240  
gataaaagac gagtacaata caatntataa gccaaaaata taattacatc tgccctggga 300  
atggatgaat atttcacggt ttcacattgt aagagtgcta aggaaatgtg ggacactcta 360  
cacttaacac atgaaggaac aacatatgtt aanagatcta ngataaacac attaactcat 420  
gaatatgaac tatttacgat gaat 444

<210> 1153

<211> 404

<212> DNA

<213> Glycine max

<400> 1153

gataccttaga gataacctcc acgcatgcaa gctttagtaa cttcccaaag gcaaatatgt 60  
tggttgagca tagtgggtgg tcagaaacaa gctagatgaa atatgtaagg ttgtgaggaa 120  
taaggctatg cttgtagcca aggggttattg agaataagaa ggtgtaaatt ataccgaaac 180

ttttgcctcat gttagtcgtc tatagacaat acatatttta ctatccttta ctgctcatca 240  
 tgggtatgata ttttgtctat agaaaaaaga attgtatttt ttctatatatt tgaaaaacgc 300  
 acaatgggtgt gtataaatac gggtacaaga ctgattgtat acactaatcc tgagctaaaa 360  
 ataaggaacc aaaatcccta taattgctgt aactatgaaa ggaa 404

<210> 1154  
 <211> 332  
 <212> DNA  
 <213> Glycine max

<400> 1154  
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 taattactta gcaaatacata atttattaag taacattata ttatataagc aatttatttc 120  
 attttacctt ccttaaattt ctcaaattcc ttatttgtaa gcattagtaa tgggtgcctct 180  
 tttaaccaat cttgagtgc aataagagta tccactattt ttgggtgtag ggagttgcag 240  
 tatggatcaa gcactcttcc accagtgcta aatggtgagt tagaagtcac aatgggtgaca 300  
 ggtatagcca aaacatattt cgcaatattt tc 332

<210> 1155  
 <211> 433  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 1155

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 tttctctatg gatattggagg tacaggaaaa acatacattt ggaaaacact tgcaagttca 120  
 ctaagagctg acaataaaaat tgtaataatg gtagcctcta gcggcatagc ttctctacta 180  
 tttcctagag gtagaactgc acattcaaaa tttaaaattc tagttccagt ttttgaagac 240  
 tcaacttgca atatccatca aggaactcaa ttagctgaac tattaaatca gacaagtcta 300  
 atcatttggg atgaagcacc catggctcac aaattctgtt ttgaggcact tgatcacagt 360  
 cgtagagata tcatcaaca caactcanag gacaataaaa tctttggagg taaagtcagt 420  
 gtctttggtg gag 433



<210> 1156  
 <211> 337  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 1156

agctntggaa aatgatatct atacaaaagt tattttatga agcgactaac actcatgcct 60  
 cttgtccttc atcgtaagtt gatccttagc tacctatgaa gttgtttgag gatgcaaacac 120  
 aaatttagcg ctaagatggg tgagggtaat ctcattactt aggtctttat aaatgacctt 180  
 cctatcaagc tgccatgacc ttactaaaag aatatgcctt acctccatgg gaactatatc 240  
 ataattaaat tcatecttat atgtcctaata ggagaaaggc accttcactt gctggtaaca 300  
 atcattatcc ctttctcact gagccattaa agttttat 337

<210> 1157  
 <211> 397  
 <212> DNA  
 <213> Glycine max

<400> 1157

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 aaaagtctgg tttggccac gagcctatctt aaaagcttgc ttaaagacgt atttgattaa 120  
 ttaattatct taaaacctag tgaaatacta actaaaaaaaa gaaacttata aaatataaaa 180  
 tttcgtataa ataatgtaca aatccaaaaa taattgataa acaaaatcat attgaattca 240  
 agtcgttaaa gcacaaagta tatcaaaaga aaataaaaag agcataatat taaaaaatgt 300  
 atggattaga gatgattggt agaaaatgaa ttctattcta cgtgaacagt gtgcatgaac 360  
 agtaataaaa actgaaattc taaaatccta aaattat 397

<210> 1158  
 <211> 305  
 <212> DNA  
 <213> Glycine max

<400> 1158

cactttgcat gtctaacatg agttctcata ctctcgggta catccctata agcgcaaaaa 60  
 ccattctcta ggtctttctc tactacatat ctacgacgaa cacattgagg aatcttcttt 120

tgggtgatact tctccaaacc tgatttggca agggctatat caattatacc cagcttctgc 180  
 ctctctcttc tgcacccata tcatgcaata tgggtgatca gacacaattg tccttctttt 240  
 cttgtccttt tgagacctat aatcattgtg tactctatgt attatgatag actgaagact 300  
 atgga 305

<210> 1159  
 <211> 438  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 1159

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 aactgtctat tttttggtgt atgttgatga cctccttctc acaggaaata acactacatt 180  
 catagacaca ttcattgagt tcttatctaa tcggttgta ctcaaaaaca tgggggcacc 240  
 atactacttt atgggtattg aacttatacc catgaactca agcatgttcc tctcacaaca 300  
 caaatacatc aaggatgtac ttgagatatt tgagatgcan gatgtgaagt cgtaaccac 360  
 accacttgcc tcgacgacta cactcatgtn gcatgatggt acaccaacca ataatgctac 420  
 tcaatatcat agaattat 438

<210> 1160  
 <211> 429  
 <212> DNA  
 <213> Glycine max

<400> 1160  
  
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 gctctctttt tgaagtgtt tatggtttta accactaac tcctcttgat cttttgcta 120  
 tgccaatgt ttctgttttt aagcataaag aaggtcaagc ataggcggac tatgtgaaga 180  
 agcttcatga gagagtcaaa gatcaaattg agaggaaaa taaaagctat gctaaacaag 240  
 ccaacaaaag gagaaagaag gttgtcttcg aacctataga ttgcgtttgg atgcacatga 300  
 caaagacag gtttccggaa caaaggatat caaagcttta accaaggtga gatggaccat 360

ttctagtgct tgaaagaatc aatgacaatg cttacaaagt tgagctgctc ggcgagtata 420  
 atgttagtt 429

<210> 1161  
 <211> 377  
 <212> DNA  
 <213> Glycine max

<400> 1161

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 aagtgcataat agggctacag acgtcttgga attgatacat acaaacattt gtgggccatt 120  
 tcatacacct tegtggaatg gttaacaata ttttatatca ttcataagacg gttactctag 180  
 atatgcatac ttgtttctta tacatgaaaa gtcacaatct ctggatgtgt tcaaaacatt 240  
 taaagttgaa gttgaaaatc aactcaacaa aagaataaag tgtgtcaaatt ctgaccgtgg 300  
 tgggtgaatac tatggcaaatt atgacgggtc aggtgaacaa cgtctggcgt ctttttctctg 360  
 gtacctagat gaatgtt 377

<210> 1162  
 <211> 292  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 1162

agcttatgaa tgcttactgt gaccgattat tctgtttatn tcaactacat tgcttttctg 60  
 tttgatggac accgcctcct agctgagcag actccagatg aggtttgtgt ttcctacatg 120  
 tattcatgaa ttccccctgt attctttatt cttataatct acatttttctg gtttgacttg 180  
 aatttctttt tgttgcagtt ggaaatggat gacggtgacg agattgatgc catgcttcac 240  
 caaacaggag gttctgttgt ctgaaggatg tgattacctt tgctcctcat ta 292

<210> 1163  
 <211> 430  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 1163

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 taactcggag gtccgattca ggcacataat atactcgagac gctcgaaatt gaacaatgga 180  
 agctcttttag caattcaaatt ggtcataact tttcactcgg aggtccgatt caggcgcata 240  
 atatatcgag acgctcgaaa ttgaacaacg gaagctctcg agaaattgaa atgatcataa 300  
 cttttctcac ggaggtcaga ttcacgcgca taatatagcg agacgctcaa aattgaacaa 360  
 cggaagctct cgatatattc aaatgggtcat aactcttcac acggagggtcc gattcaggcg 420  
 cttaatatat 430

<210> 1164  
 <211> 435  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 1164

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 tgggtgtatt ctttgaaaga accgtgcccc tttttgcaca tgttctatag ttgcataccta 180  
 tccgaaacca tatcaaaatt gtactgatac tgcctaacaa aggcaaccat taggtccttc 240  
 caagaatgga ctccgggaagg ttccatgtta gcgtactatg taacagctac cccagtaaga 300  
 ctttcttgga agagatgtat caacagttcc tcactctttg cgtatgcccc catctttcga 360  
 caatacatct ttagatgggt cttggggcaa gtagtccctt tgtacttggt aaagtccggc 420  
 accttgaact tggga 435

<210> 1165  
 <211> 429  
 <212> DNA  
 <213> Glycine max  
 <400> 1165

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 ggcacagccc cgactccatg gatccattcc cttcctaata gcacgtcaaa attagccttg 120  
 gactgtatca ccaggaataa agttgggtcga actatactgc ctacagcaac atctacttga 180

atggctccca cagaatagcc agtggtaccc tcataattcg aaagcacaat gttgtgggca 240  
gatagatcag tgtcatgttt cccgatcttg tagagcatat atcgaggcat taagttaaca 300  
gacgctcctc catctatgag cacatttgtg attccaacat tctcaactct tgccctgatg 360  
aaaagagggt cgagatgact tttcactcga aaatctggct tatgaagaac gctaattgtt 420  
catccacac 429

<210> 1166  
<211> 394  
<212> DNA  
<213> Glycine max

<400> 1166  
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ccttaaggaa ttttggagct ctggaattgt tttgcgaata agtgtggggg gtatttgttt 180  
cattggacaa cttgtgatgc aatcctactc cgcaagggca ttggatagaa aaactccaag 240  
tagattgggc cagagatgca agagaaggcc ctagggttct tatgagcctt agggtagaat 300  
tcgggcccac gggctaagta cgagcccgcct tatctttgta aatattagat taagggttca 360  
ttatttttgg gccttgata tagggcttca taat 394

<210> 1167  
<211> 516  
<212> DNA  
<213> Glycine max

<400> 1167  
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taggcgatga ttattggcat actatgtcat gtgattttgg gctctgttta gatgaaactt 120  
caactgatta agtgcttcat ctctttctat aagatcctaa gccactgcct caactaggac 180  
ttcccctaga atgaaccttg ccaaagatgg ggatggctga ccataaccta tttcaaattg 240  
ggtacacctg gcagctccct ggtaatatgt attataccac tattctgccc acgggataaa 300  
ctcaacccaa gatttggatt gctttgcaca catctcaaat atctctccat ggttatgttt 360  
agtaccttag tttggccatt tgaccgaggg tgataagcaa tacttatttt caaagttggg 420

ccttgttttt tgaataactc ctgctaaata taactcaaag catccttgtc ccttcactat 480  
 tgaaaaaagg aattccaagc tgccttatta ctctct 516

<210> 1168  
 <211> 678  
 <212> DNA  
 <213> Glycine max

<400> 1168

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 cccaacttgc tccacaaagt cctccaaaaa tggcttagga acttagagtc cctatcacta 180  
 acaatgctcc ttggcaaacc atggagtctc acaatctcct tgaaaaacaa atcagccaca 240  
 tgggaagcat catcaatttt ttacatgga ataaatgag ccattttaga aaacctatca 300  
 acaaccacaa aaatggaatc tctaccattg cttgtttttg gcagcccaa aacaaatcc 360  
 atggataaat caatccaagg atactccgga attggcaatg gagtatacaa tacatgaggc 420  
 tttaccttag actttgcctt ttacataga atgcaatgtt cacaaaattt ctgcacatcc 480  
 tttttcatat gaggccaata aaaatgttct tgtaatgttt ctagagtctt ttggacccca 540  
 aaatgccccca tttaacctcc ttcattgtgt tcacaaacaa gcaaatttct agtagaacat 600  
 taggcacaca caattgtttt cttgaaaaga aagcttcatt tctaaaaaac atttctgaaa 660  
 aatttcacaa ttttaaaa 678

<210> 1169  
 <211> 578  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 1169

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 agtgctgcc aatgtgctaa aatccttcac aatcgtcta taaaaacttg ctaagccatg 120  
 aaaactcctc acctcggcca cagacttagg tgtaggcat tcttgaataa ccctaacctt 180  
 ctctcatcc acttgactc cttttgaact cacaacaaaa ccaagaaaca caacatgggt 240

agtacaaaag atgcattttt caagattgac atacaattgt ttttctctaa gcacagtcaa 300  
 gacagattttt aaatgatcaa tatgcaaato aagtgaagt ctatagataa gaatatcatc 360  
 aaagtacacc acaacgaact ttccatgaa ctctctcaag atatggttca ttaatctcat 420  
 gaaagtgcta agagcgttag ttaggccaaa aagcataacc aaccattctt acaaaccata 480  
 ttttgtnta aaagccagtt ttcattcatc ccccttctaa tctaatttga tggatccctt 540  
 tttaaatcga ttttaaagaa tacatgcccc atgcaatt 578

<210> 1170  
 <211> 552  
 <212> DNA  
 <213> Glycine max

<400> 1170  
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 aatacataaa tattaaatta ataacattaa atgcaacctt aatatttttg tttaaatctc 120  
 gtttaaaatt ttaaatttaa ttacttaaaa aatatgtatt aaaaatattt tttttacata 180  
 tatagttaaa tataaattaa aatatttttt tggttaccat gcaatttata taaaatattc 240  
 acctgcttta accttaccga aaccttaaag tttttatttt ttaaaccgc aaacaaatta 300  
 tatatattag aagtaagtat cagagatacc ttaagaacaa aatataagcc caacattcag 360  
 caactcgggt aatcaatatt aatatctgat caaaagatat aagattaatt tgataaataa 420  
 aaattaaaat ttaagagtga aaagagaaat tgtgagttta aatttctgtc attaataatt 480  
 ctaacaaaac taataaaata actcatttac tgaaaaaaga acacctcatc cgattaaata 540  
 taaactaacc ca 552

<210> 1171  
 <211> 420  
 <212> DNA  
 <213> Glycine max

<400> 1171  
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 cccttccatg cagcaacctg gagcaattga gcagcctgaa gcttatgctg caaatatcta 180

caatagacct cctcaacctc agcagcaaaa tcaaccacag cagagcaatt atgacctttc 240  
cagcaacaga tacaaccttg gatggaggaa tcacctaac ctcagatggc ccagccctca 300  
gcaactacaa caccagcctg ctccttcttt tcaaaatatt gttggcgcaa ccaaaccata 360  
cattcttcca ccaatccaac aacataacca ccccataaac agccaacagt tgaggccctt 420

<210> 1172  
<211> 496  
<212> DNA  
<213> Glycine max

<400> 1172

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taatctctta ttcataattg tgatttgatg caaagtgcct ttgtccagag tcatgcttgt 180  
gaataatgat tttgggtgat aaaatatcaa caagaacct atcaagacat tgtattaata 240  
taatgaaaat tttcttgtct gcaacattga gaaccaatag gatctccctc agctcagttc 300  
tatgattccc tttgatttga cagggtgtta tgattactca tggaaacatt gtagcaacaa 360  
cagcagcagt tatgacaatt attccaaatc ttggtagcaa ggatgtgtac atggcctact 420  
tgccccttgc tcatgttttt gaaatggcag cacaggtaat ttcttcttag ccttctaact 480  
gtcaaagtag ttgatg 496

<210> 1173  
<211> 486  
<212> DNA  
<213> Glycine max

<400> 1173

ctaattaacc taaaattgag agaaaatgat tttttaacac acaaaccgga agtactaaat 60  
atattattacc aaataaattg gaataatctc atacaattta cacaagtttt atacataaaa 120  
ggtagtgatt ttcaccgact aacagaggcc tctacaatca cctttcctcc ttctctatta 180  
tactgccatt gatcttcaag aagcaaata gaataatgat gaacaacatc caaagtctac 240  
aagctccaca tgaagctaca tcatgtggga tcaagaacag cttcatctac gagaagctct 300  
tttgcttctt ctatcttttg cttgggcaat tcaatttaac aacgtattct taacaatttc 360